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ANNUAL ANNOUNCEMENT  
OF THE  
DENTAL SCHOOL  
OF  
HARVARD UNIVERSITY

1907-08



CAMBRIDGE, MASS.  
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1907

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| 1907.      |    |    |    |    |    |    |  | 1908.     |    |    |    |    |    |    |  |            |    |    |    |    |    |    |    |  |
|------------|----|----|----|----|----|----|--|-----------|----|----|----|----|----|----|--|------------|----|----|----|----|----|----|----|--|
| JULY.      |    |    |    |    |    |    |  | JANUARY.  |    |    |    |    |    |    |  | JULY.      |    |    |    |    |    |    |    |  |
| Su         | Mo | Tu | W  | Th | Fr | Sa |  | Su        | Mo | Tu | W  | Th | Fr | Sa |  | Su         | Mo | Tu | W  | Th | Fr | Sa |    |  |
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| 14         | 15 | 16 | 17 | 18 | 19 | 20 |  | 12        | 13 | 14 | 15 | 16 | 17 | 18 |  | 12         | 13 | 14 | 15 | 16 | 17 | 18 |    |  |
| 21         | 22 | 23 | 24 | 25 | 26 | 27 |  | 19        | 20 | 21 | 22 | 23 | 24 | 25 |  | 19         | 20 | 21 | 22 | 23 | 24 | 25 |    |  |
| 28         | 29 | 30 | 31 | -- | -- | -- |  | 26        | 27 | 28 | 29 | 30 | 31 | -- |  | 26         | 27 | 28 | 29 | 30 | 31 | -- | -- |  |
| --         | -- | -- | -- | -- | -- | -- |  | --        | -- | -- | -- | -- | -- | -- |  | --         | -- | -- | -- | -- | -- | -- | -- |  |
| AUGUST.    |    |    |    |    |    |    |  | FEBRUARY. |    |    |    |    |    |    |  | AUGUST.    |    |    |    |    |    |    |    |  |
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| 11         | 12 | 13 | 14 | 15 | 16 | 17 |  | 9         | 10 | 11 | 12 | 13 | 14 | 15 |  | 9          | 10 | 11 | 12 | 13 | 14 | 15 |    |  |
| 18         | 19 | 20 | 21 | 22 | 23 | 24 |  | 16        | 17 | 18 | 19 | 20 | 21 | 22 |  | 16         | 17 | 18 | 19 | 20 | 21 | 22 |    |  |
| 25         | 26 | 27 | 28 | 29 | 30 | 31 |  | 23        | 24 | 25 | 26 | 27 | 28 | 29 |  | 23         | 24 | 25 | 26 | 27 | 28 | 29 |    |  |
| --         | -- | -- | -- | -- | -- | -- |  | --        | -- | -- | -- | -- | -- | -- |  | 30         | 31 | -- | -- | -- | -- | -- | -- |  |
| SEPTEMBER. |    |    |    |    |    |    |  | MARCH.    |    |    |    |    |    |    |  | SEPTEMBER. |    |    |    |    |    |    |    |  |
| 1          | 2  | 3  | 4  | 5  | 6  | 7  |  | 1         | 2  | 3  | 4  | 5  | 6  | 7  |  | --         | -- | 1  | 2  | 3  | 4  | 5  |    |  |
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| 15         | 16 | 17 | 18 | 19 | 20 | 21 |  | 15        | 16 | 17 | 18 | 19 | 20 | 21 |  | 13         | 14 | 15 | 16 | 17 | 18 | 19 |    |  |
| 22         | 23 | 24 | 25 | 26 | 27 | 28 |  | 22        | 23 | 24 | 25 | 26 | 27 | 28 |  | 20         | 21 | 22 | 23 | 24 | 25 | 26 |    |  |
| 29         | 30 | -- | -- | -- | -- | -- |  | 29        | 30 | 31 | -- | -- | -- | -- |  | 27         | 28 | 29 | 30 | -- | -- | -- |    |  |
| --         | -- | -- | -- | -- | -- | -- |  | --        | -- | -- | -- | -- | -- | -- |  | --         | -- | -- | -- | -- | -- | -- | -- |  |
| OCTOBER.   |    |    |    |    |    |    |  | APRIL.    |    |    |    |    |    |    |  | OCTOBER.   |    |    |    |    |    |    |    |  |
| --         | -- | 1  | 2  | 3  | 4  | 5  |  | --        | -- | -- | 1  | 2  | 3  | 4  |  | --         | -- | -- | -- | 1  | 2  | 3  |    |  |
| 6          | 7  | 8  | 9  | 10 | 11 | 12 |  | 5         | 6  | 7  | 8  | 9  | 10 | 11 |  | 4          | 5  | 6  | 7  | 8  | 9  | 10 |    |  |
| 13         | 14 | 15 | 16 | 17 | 18 | 19 |  | 12        | 13 | 14 | 15 | 16 | 17 | 18 |  | 11         | 12 | 13 | 14 | 15 | 16 | 17 |    |  |
| 20         | 21 | 22 | 23 | 24 | 25 | 26 |  | 19        | 20 | 21 | 22 | 23 | 24 | 25 |  | 18         | 19 | 20 | 21 | 22 | 23 | 24 |    |  |
| 27         | 28 | 29 | 30 | 31 | -- | -- |  | 26        | 27 | 28 | 29 | 30 | -- | -- |  | 25         | 26 | 27 | 28 | 29 | 30 | 31 |    |  |
| --         | -- | -- | -- | -- | -- | -- |  | --        | -- | -- | -- | -- | -- | -- |  | --         | -- | -- | -- | -- | -- | -- | -- |  |
| NOVEMBER.  |    |    |    |    |    |    |  | MAY.      |    |    |    |    |    |    |  | NOVEMBER.  |    |    |    |    |    |    |    |  |
| --         | -- | -- | -- | -- | 1  | 2  |  | --        | -- | -- | -- | -- | 1  | 2  |  | 1          | 2  | 3  | 4  | 5  | 6  | 7  |    |  |
| 3          | 4  | 5  | 6  | 7  | 8  | 9  |  | 3         | 4  | 5  | 6  | 7  | 8  | 9  |  | 8          | 9  | 10 | 11 | 12 | 13 | 14 |    |  |
| 10         | 11 | 12 | 13 | 14 | 15 | 16 |  | 10        | 11 | 12 | 13 | 14 | 15 | 16 |  | 15         | 16 | 17 | 18 | 19 | 20 | 21 |    |  |
| 17         | 18 | 19 | 20 | 21 | 22 | 23 |  | 17        | 18 | 19 | 20 | 21 | 22 | 23 |  | 22         | 23 | 24 | 25 | 26 | 27 | 28 |    |  |
| 24         | 25 | 26 | 27 | 28 | 29 | 30 |  | 24        | 25 | 26 | 27 | 28 | 29 | 30 |  | 29         | 30 | -- | -- | -- | -- | -- |    |  |
| --         | -- | -- | -- | -- | -- | -- |  | 31        | -- | -- | -- | -- | -- | -- |  | --         | -- | -- | -- | -- | -- | -- | -- |  |
| DECEMBER.  |    |    |    |    |    |    |  | JUNE.     |    |    |    |    |    |    |  | DECEMBER.  |    |    |    |    |    |    |    |  |
| 1          | 2  | 3  | 4  | 5  | 6  | 7  |  | --        | 1  | 2  | 3  | 4  | 5  | 6  |  | --         | -- | 1  | 2  | 3  | 4  | 5  |    |  |
| 8          | 9  | 10 | 11 | 12 | 13 | 14 |  | 7         | 8  | 9  | 10 | 11 | 12 | 13 |  | 6          | 7  | 8  | 9  | 10 | 11 | 12 |    |  |
| 15         | 16 | 17 | 18 | 19 | 20 | 21 |  | 14        | 15 | 16 | 17 | 18 | 19 | 20 |  | 13         | 14 | 15 | 16 | 17 | 18 | 19 |    |  |
| 22         | 23 | 24 | 25 | 26 | 27 | 28 |  | 21        | 22 | 23 | 24 | 25 | 26 | 27 |  | 20         | 21 | 22 | 23 | 24 | 25 | 26 |    |  |
| 29         | 30 | 31 | -- | -- | -- | -- |  | 28        | 29 | 30 | -- | -- | -- | -- |  | 27         | 28 | 29 | 30 | 31 | -- | -- |    |  |
| --         | -- | -- | -- | -- | -- | -- |  | --        | -- | -- | -- | -- | -- | -- |  | --         | -- | -- | -- | -- | -- | -- | -- |  |



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## DENTAL SCHOOL CALENDAR.

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### 1907.

- Sept. 19, Thursday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.
- Sept. 26, Thursday.* **Academic Year begins.** Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
- Nov. 28, Thursday.* Thanksgiving Day: a holiday.

RECESS FROM DEC. 23, 1907, TO JAN. 2, 1908, INCLUSIVE.

### 1908.

- Jan. 1, Wednesday.* Last day for receiving dissertations for the Boylston Medical Prizes.
- Jan. 15, Wednesday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1908.
- Jan. 30, Thursday.* Mid-year examinations begin.
- Jan. 31, Friday.* Payment of the second instalment of the tuition-fee is required on or before this date.
- Feb. 1, Saturday.* **Second half-year begins.**
- Feb. 22, Saturday.* Washington's Birthday: a holiday.
- April 1, Wednesday.* Last day for receiving dissertations for the Bowdoin Prizes.

RECESS FROM APRIL 19 TO APRIL 25, INCLUSIVE.

- May 1, Friday.* Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
- May 1, Friday.* Last day for receiving applications of candidates for the degree of D.M.D. in June, 1908.

*May 30, Saturday.* Memorial Day : a holiday.

*June 1, Monday.* Examinations begin.

*June 22, Monday.* Alumni Day.

*June 24, Wednesday.* Commencement.

SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT DAY  
TO SEPTEMBER 30, INCLUSIVE.

*Sept. 24, Thursday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.


*Oct. 1, Thursday.* Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.

## DEPARTMENTS OF THE UNIVERSITY.

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The University comprehends the following departments : —

HARVARD COLLEGE,  
THE LAWRENCE SCIENTIFIC SCHOOL,  
THE GRADUATE SCHOOL OF ARTS AND SCIENCES,  
THE GRADUATE SCHOOL OF APPLIED SCIENCE,  
THE DIVINITY SCHOOL,  
THE LAW SCHOOL,  
THE MEDICAL SCHOOL,  
THE DENTAL SCHOOL,  
THE BUSSEY INSTITUTION (a School of Agriculture),  
THE ARNOLD ARBORETUM,  
THE UNIVERSITY LIBRARY,  
THE MUSEUM OF COMPARATIVE ZOÖLOGY,  
THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY  
AND ETHNOLOGY,  
THE UNIVERSITY MUSEUM,  
THE BOTANIC GARDEN,  
THE GRAY HERBARIUM,  
THE ASTRONOMICAL OBSERVATORY.

 Students in regular standing in any one department of the University are admitted free to the instruction and the examinations given in any other department, with the exception of exercises carried on in the special laboratories. But no student whose tuition fee for the year amounts to less than \$150 is admitted to exercises given in any department other than that in which he is enrolled, except by special permission of the Dean of the department in which the instruction is given, after being duly accredited thereto by the Dean of the department of which the student is a member.

## ADMINISTRATIVE OFFICERS.

---

### THE UNIVERSITY.

*President:* CHARLES WILLIAM ELIOT, A.M., LL.D.

Office, 5 University Hall, Cambridge.

*Treasurer:* CHARLES FRANCIS ADAMS, 2d, A.B., LL.B.

*Comptroller:* HOWARD LANE BLACKWELL, PH.D.

The office of the Corporation (and of the Treasurer and the Comptroller) is at 50 State Street, Boston. Office hours, 10 A.M. to 2 P.M.; Saturday, 10 A.M. to 12 M.

*Bursar:* CHARLES FRANK MASON, A.B.

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*Librarian:* WILLIAM COOLIDGE LANE, A.B.

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*Director of Hemenway Gymnasium:* DUDLEY ALLEN SARGENT, M.D., S.D.

Office, Hemenway Gymnasium, Cambridge.

*Regent:* CHARLES MINER STEARNS, A.B.

Office, 5 University Hall, Cambridge. Office hours, daily, except Saturday, 9 to 10.30 A.M.

*Publication Agent:* JOHN BERTRAM WILLIAMS, A.B.

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*Secretary to the Corporation:* JEROME DAVIS GREENE, A.B.

Office, 5 University Hall, Cambridge.

### THE FACULTY OF ARTS AND SCIENCES.

*The Offices of this Faculty and of the Departments under its charge at Nos. 4, 5, 10, 16, and 20, University Hall, Cambridge, are open on weekdays, except Saturdays, from 9 A.M. to 1 P.M., and on Saturdays from 9 A.M. to 12 M. Nos. 5, 10, 16, and 20 are also ordinarily open on weekdays, except Saturdays, from 2 to 4 P.M.*

*Dean of the Faculty of Arts and Sciences:* LE BARON RUSSELL BRIGGS, A.M., LL.D.

Office, 5 University Hall. Office hours, 10 A.M. to 1 P.M., Monday.



*Dean of the Graduate School of Arts and Sciences:* JOHN HENRY WRIGHT, A.M., LL.D.

Office, 10 University Hall. Office hours, Monday, Thursday, 3 to 3.30 P.M.

*Dean of Harvard College:* BYRON SATTERLEE HURLBUT, A.M.

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Office, 4 Lawrence Hall.

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*Secretary for Appointments:* EDGAR HUIDEKOPER WELLS, A.B.

Office, 9 University Hall. Office hours, daily, 10 A.M. to 12 M., and daily, except Saturday, 2 to 4 P.M.

## LABORATORIES AND MUSEUMS ASSOCIATED WITH THE FACULTY OF ARTS AND SCIENCES.

*Director of the Chemical Laboratory:* CHARLES ROBERT SANGER, PH.D.

The Chemical Laboratory is in Boylston Hall.

*Director of the Jefferson Physical Laboratory:* JOHN TROWBRIDGE, S.D.

The Jefferson Physical Laboratory is on Holmes Field.

*Director of the University Museum:* ALEXANDER AGASSIZ, LL.D.

*Curator of the Museum of Comparative Zoölogy:* SAMUEL HENSHAW, A.M.

*In charge of the Botanical Museum:* GEORGE LINCOLN GOODALE, M.D., LL.D.

The Botanical Laboratories are in the same building.

*Curator of the Mineralogical Museum:* JOHN ELIOT WOLFF, PH.D.

*Curator of the Peabody Museum of Archaeology and Ethnology:* FREDERIC WARD PUTNAM, A.M., S.D.

The above Museums are between Oxford Street and Divinity Avenue.

*Curator of the Semitic Museum:* DAVID GORDON LYON, PH.D., D.D.

The Semitic Museum is on Divinity Avenue.

*Curator of the Germanic Museum:* KUNO FRANCKE, PH.D., LL.D.

The Germanic Museum is at the junction of Cambridge Street and Broadway, opposite Memorial Hall.

*Director of the William Hayes Fogg Museum of Art, and Curator of the Gray Collection of Engravings:* CHARLES HERBERT MOORE, A.M.

The Fogg Museum of Art is on Cambridge Street.

*Director of the Botanic Garden:* GEORGE LINCOLN GOODALE, M.D., LL.D.

*Curator of the Gray Herbarium:* BENJAMIN LINCOLN ROBINSON, PH.D.

The Herbarium and Botanic Garden are at the corner of Garden and Linnaean Streets.

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*Dean of the Medical School* }

Office, Harvard Medical School, Longwood Avenue, Boston. Office hours, Tuesday, Friday, 12.15 P.M. to 1 P.M.



*Secretary of the Faculty of Medicine:* CHARLES MONTRAVILLE GREEN, M.D.  
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*Curator of the Dental Museum:* WALDO ELIAS BOARDMAN, D.M.D.  
Office, 184 Boylston Street, Boston.

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and telegraph station is Forest Hills, on the Boston and Providence  
Division of the N.Y., N.H., and Hartford Railroad.

*Superintendent of the Bussey Farm:* EDMUND HERSEY.  
The post-office address of the Farm Superintendent is Roslindale.

*Director of the Arnold Arboretum:* CHARLES SPRAGUE SARGENT, A.B.,  
LL.D.

The Arnold Arboretum is in Jamaica Plain. The nearest railway  
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*Director of the Astronomical Observatory:* EDWARD CHARLES PICKER-  
ING, LL.D.

The Observatory is at the corner of Garden and Bond Streets,  
Cambridge.

# THE DENTAL SCHOOL.

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———, DEAN.

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CHARLES HARRINGTON, M.D., *Professor of Hygiene.*

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WILLIAM H. POTTER, D.M.D., *Professor of Operative Dentistry.*

HERMAN F. VICKERY, M.D., *Instructor in Clinical Medicine.*

JOHN T. BOWEN, M.D., *Edward Wigglesworth Professor of Dermatology.*

\* Arranged, with the exception of the President and Dean, on the basis of collegiate seniority.

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 GEORGE G. SEARS, M.D., *Assistant Professor of Clinical Medicine.*  
 ALGERNON COOLIDGE, JR., M.D., *Assistant Professor of Laryngology.*  
 FRANZ PFAFF, M.D., *Professor of Pharmacology and Therapeutics.*  
 THEOBALD SMITH, M.D., *George Fabyan Professor of Comparative Pathology.*  
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 EDWARD H. NICHOLS, M.D., *Assistant Professor of Surgical Pathology.*  
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 HOWARD A. LOTHROP, M.D., *Instructor in Surgery.*  
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 CHARLES A. PORTER, M.D., *Instructor in Surgery.*  
 EDWARD W. TAYLOR, M.D., *Instructor in Neurology.*  
 RICHARD C. CABOT, M.D., *Instructor in Clinical Medicine.*  
 ELLIOTT P. JOSLIN, M.D., *Instructor in the Theory and Practice of Physic.*  
 JAMES H. WRIGHT, M.D., S.D., *Assistant Professor of Pathology.*  
 OTTO FOLIN, PH.D., *Associate Professor of Biological Chemistry.*  
 ROBERT B. GREENOUGH, M.D., *Instructor in Surgery.*  
 HENRY A. CHRISTIAN, M.D., *Assistant Professor of the Theory and Practice of Physic.*  
 CARL L. ALSBERG, M.D., *Instructor in Biological Chemistry.*  
 JOHN L. BREMER, M.D., *Demonstrator of Histology.*  
 WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*  
 JOHN WARREN, M.D., *Demonstrator of Anatomy.*  
 FREDERIC T. LEWIS, M.D., *Assistant Professor of Embryology.*  
 ELMER E. SOUTHARD, M.D., *Assistant Professor of Neuropathology.*

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#### STANDING COMMITTEES FOR THE DENTAL SCHOOL.

*Courses of Study.* — Dr. Smith (*Chairman*), Drs. Potter, Cooke, and Briggs.

*Summer Courses.* — Dr. Potter (*Chairman*), Drs. Cooke and Cross.

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*Students' Health.* — Dr. Ernst (*Chairman*), and Drs. Putnam, E. H. Smith, J. B. Blake, and Badger.

*Students' Aid.* — Any student who needs assistance, pecuniary or other, may write to Dr. Franklin Dexter, in care of the Dean, 283 Dartmouth Street, Boston.

# THE DENTAL SCHOOL, BOSTON.

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## GENERAL STATEMENT.

The Harvard Dental School is established in Boston and was instituted by vote of the President and Fellows of Harvard College, July 17, 1867. The first session of the School opened on the first Wednesday in November, 1867, and continued until the following March. The first examination of candidates for the degree of the School was held March 6, 1869.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess from December 23 to January 2, inclusive; and a recess of one week's duration in April.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The course of instruction is progressive, and extends over three years, the teaching of one year not being repeated in the next.

The studies of the first year are pursued in connection with the classes in the Harvard Medical School, the student receiving instruction by the same professors at the same time and place with the medical students, and at the end of the year passing with them the examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as ensure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, ensuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary remains open, and clinical instructors and a demonstrator are in attendance, daily, throughout the academic year, offering to students excellent facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical School. Students in regular standing in any one department of the University are admitted free to the instruction and the examinations given in any other department, with the exception of



exercises carried on in the special laboratories. But no student whose tuition fee for the year amounts to less than \$150 is admitted to exercises given in any department other than that in which he is enrolled, except by special permission of the Dean of the department in which the instruction is given, after being duly accredited thereto by the Dean of the department of which the student is a member.

That the time of study shall count as a full term, students of every class must present themselves within the first week of the term and register their names with the Dean.

#### ADMINISTRATIVE BOARD.

EUGENE H. SMITH, D.M.D., DEAN, and *Professor of Orthodontia and Prosthetic Dentistry.*

CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology.*

EDWARD C. BRIGGS, M.D., D.M.D., *Professor of Dental Materia Medica and Therapeutics.*

WILLIAM P. COOKE, D.M.D., *Assistant Professor of Prosthetic Dentistry.*

WILLIAM H. POTTER, D.M.D., *Professor of Operative Dentistry.*

WALDO E. BOARDMAN, D.M.D., *Curator of Dental Museum, and Librarian.*

HAROLD DEW. CROSS, D.M.D., *Lecturer on Prosthetic Dentistry.*

#### INSTRUCTORS, LECTURERS, AND ASSISTANTS.

GEORGE H. MONKS, M.D., M.R.C.S., *Lecturer on Surgery.*

SAMUEL A. HOPKINS, M.D., D.D.S., *Instructor in Dental Pathology.*

EDWIN C. BLAISDELL, D.M.D., *Instructor in Operative Dentistry.*

NED A. STANLEY, D.M.D., *Instructor in Operative Dentistry.*

JOHN BAPST BLAKE, M.D., *Instructor in Surgery.*

ARTHUR W. ELDRED, D.M.D., *Instructor in Prosthetic Dentistry.*

AMOS I. HADLEY, D.M.D., *Instructor in Porcelain Work.*

JOSEPH T. PAUL, D.M.D., *Instructor in Operative Dentistry.*

EDWARD W. TAYLOR, M.D., *Instructor in Neurology.*

H. CARLTON SMITH, Ph.G., *Lecturer on Dental Chemistry.*

C. MORTON SMITH, M.D., *Instructor in Syphilis.*

THOMAS B. HAYDEN, D.M.D., *Instructor in Prosthetic Dentistry.*

JAMES A. FURFEY, D.M.D., *Instructor in Operative Dentistry.*

MARQUIS D. LITTIG, D.D.S., M.D., D.M.D., *Instructor in Operative Dentistry.*

ROBERT T. MOFFATT, D.M.D., *Instructor in Porcelain Work.*

ERNEST H. CHUTE, D.M.D., *Instructor in Prosthetic Dentistry.*

HAROLD DEW. CROSS, D.M.D., *Lecturer on Prosthetic Dentistry.*

- EDWIN L. FARRINGTON, D.M.D., *Instructor in Extracting and Anaesthesia.*
- HARRY W. HALEY, D.M.D., *Instructor in Prosthetic Dentistry.*
- JOHN D. DICKINSON, D.M.D., *Clinical Instructor in Prosthetic Dentistry.*
- LAWRENCE W. BAKER, D.M.D., *Instructor in Orthodontia.*
- HORACE L. HOWE, D.M.D., *Instructor in Orthodontia.*
- WILLIAM D. SQUAREBRIGS, D.M.D., *Instructor in Extracting and Anaesthesia.*
- HORACE A. DAVIS, D.M.D., *Instructor in Prosthetic Dentistry.*
- JOHN W. ESTABROOKS, D.M.D., *Instructor in Prosthetic Dentistry.*
- WILSON C. DORT, D.M.D., *Instructor in Prosthetic Dentistry.*
- SAMUEL T. ELLIOTT, D.M.D., *Instructor in Operative Dentistry.*
- ALBERT L. MIDGLEY, D.M.D., *Assistant in Extracting and Anaesthesia.*
- CHARLES G. PIKE, D.M.D., *Instructor in Operative Dentistry.*
- MELVILLE F. ROGERS, D.M.D., *Instructor in Operative Dentistry.*
- ROBERT WHITEHILL, D.M.D., *Instructor in Operative Dentistry.*
- WALTER C. MINER, D.M.D., *Assistant in Prosthetic Dentistry.*
- JAMES J. O'BRIEN, D.M.D., *Instructor in Extracting and Anaesthesia.*
- LEO A. ROGERS, D.M.D., *Instructor in Prosthetic Dentistry.*
- HARRY B. SHUMAN, D.M.D., *Instructor in Oral Surgery and Roentgenology.*
- HERBERT F. LANGLEY, D.M.D., *Instructor in Prosthetic Dentistry.*
- HARRY A. STONE, D.M.D., *Instructor in Extracting and Anaesthesia.*
- WILLIAM H. WESTON, D.M.D., *Instructor in Prosthetic Dentistry.*
- HARRY S. CLARK, D.M.D., *Instructor in Prosthetic Dentistry.*
- MARTIN B. DILL, D.M.D., *Instructor in Operative Dentistry.*
- FRANK LER. EAMES, D.M.D., *Instructor in Prosthetic Dentistry.*
- JULIUS F. HOVESTADT, D.M.D., *Assistant in Crown and Bridge Work.*
- LEROY M. S. MINER, D.M.D., M.D., *Instructor in Oral Surgery.*
- BENJAMIN TISHLER, D.M.D., *Instructor in Extracting and Anaesthesia.*
- EUGENE B. WYMAN, D.M.D., *Demonstrator of Operative Dentistry.*
- JOHN A. FURBISH, D.M.D., *Instructor in Prosthetic Dentistry.*
- VARAZTAD H. KAZANJIAN, D.M.D., *Assistant in Prosthetic Dentistry.*
- CHARLES E. STEVENS, D.M.D., *Assistant in Operative Dentistry.*
- HOWARD W. BALDWIN, D.M.D., *Assistant in Prosthetic Dentistry.*
- FRED A. BECKFORD, D.M.D., *Assistant in Prosthetic Dentistry.*
- ERNEST V. L. WHITCHURCH, D.M.D., *Assistant in Operative Dentistry.*

## DENTISTS TO OUT-PATIENTS.

CHARLES E. STEVENS, D.M.D.

OTIS S. SMITH, D.M.D.

MAURICE E. PETERS, D.M.D.

CHARLES H. CALUSDIAN, D.M.D.

## STUDENTS

## POST-GRADUATE.

| NAME.   | HOME RESIDENCE.          | PRESENT ADDRESS.*               |
|---|--------------------------|---------------------------------|
| Bell, Dudley Johnson, M.D.<br>( <i>Maine Med. Sch.</i> ) 1888,                | <i>Granville, Can.</i>   | 27 Elmo St., Dor.               |
| Bronson, Archibald Franklin,<br>D.D.S. ( <i>Northwestern Univ.</i> )<br>1900, | <i>Nora Springs, Ia.</i> | [Cambridge.<br>14 Plympton St., |

## THIRD YEAR.

|   |                                  |                                     |
|---|----------------------------------|-------------------------------------|
| Bauer, Julius Friedrich Wilhelm,<br>PH.D. ( <i>Halle</i> ) 1887,  | <i>Cairo, Egypt,</i>             | Craigie 201, Cambridge.             |
| Byrne, Ferdinand, L.D.S., F.P.S.<br>( <i>Glasgow</i> ) 1907,      | <i>Liverpool, England,</i>       | Craigie 106, Cambridge.             |
| Calder, Ernest Spencer,   | <i>Providence, R. I.</i>         | Beacon Chambers.                    |
| Flagg, Guy Edward,  | <i>Woodstock, N.B.</i>           | Craigie 102, Cambridge.             |
| Flannery, David Leo,  | <i>Somerville,</i>               | 34 Franklin St., Somer.             |
| Glasser, Samuel,  | <i>Dublin, Ireland,</i>          | 17 Charles St.                      |
| Jenkins, John Lindsay Webster,<br>A.B. 1901,                      | <i>Jamaica Plain,</i>            | 73 Elm St., Jam. Pl.                |
| Keyes, Frederic Anthony,  | <i>So. Boston,</i>               | 595 E. 5th St., So. Boston.         |
| Kindstrand, Ernst Otto Rein-<br>hold,                             | <i>Stockholm, Sweden,</i>        | 423 Broadway, Cambridge.            |
| Magrath, James Timothy,   | <i>So. Boston,</i>               | 127 G St., So. Boston.              |
| Myerson, Simon,   | <i>Cambridge,</i>                | 270 Green St., Cambridge.           |
| Parker, Charles Stevens,  | <i>Boston,</i>                   | 160 Huntington Ave.                 |
| Pickett, Arthur Henry, L.D.S.,<br>R.C.S. ( <i>England</i> ) 1906, | <i>Tunbridge Wells, England,</i> | 19 Ellsworth Ave.,                  |
| Quinn, Rupert William Schom-<br>bergh,                            | <i>Johannesburg, So. Africa,</i> | [Cambridge.<br>170 W. Brookline St. |

\* Addresses are in Boston unless stated to be elsewhere.

|  |                                 |                              |
|--|---------------------------------|------------------------------|
| Rand, Arthur Garfield,                             | <i>Unity, Me.</i>               | Craigie 102, Cambridge.      |
| Regan, Frank Alfred,                               | <i>Boston,</i>                  | 708 Huntington Ave.          |
| Ring, Joseph Aloysius,                             | <i>Dorchester,</i>              | 12 Victoria St., Dor.        |
| Russell, Alfred Pierpont, Jr.,                     |                                 |                              |
| s.B. ( <i>Howard Coll.</i> ) 1905,                 | <i>So. Norfolk, Va.</i>         | 30 Holyoke St.               |
| Safford, Carl Eaton,                               | <i>Keene, N. H.</i>             | 160 Huntington Ave.          |
| Shannon, Clarence,                                 | <i>Florenceville, N. B.</i>     | Craigie 102, Cambridge.      |
| Taft, Roger Browne,                                | <i>Cambridge,</i>               | 32 Avon Hill St., Cambridge. |
| Tishler, Mark, D.M.D. ( <i>Tufts Coll.</i> ) 1907, | <i>Boston,</i>                  | 238 W. Canton St.            |
| Tschitschkan, Peter Lemenowich,                    | <i>Slavianoterlisk, Russia,</i> | 367 Cambridge St.            |
| Willerval, Georges Alfred Emile,                   |                                 |                              |
| C.D. ( <i>Paris</i> ) 1906,                        | <i>Arras, France,</i>           | 4 St. Botolph St.            |
| Wright, Alexander James, L.D.S.,                   |                                 | [Cambridge.                  |
| R.C.S. ( <i>England</i> ) 1906,                    | <i>Perth, W. Australia,</i>     | 362 Harvard St.,             |

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 SECOND YEAR.

|                                       |                               |                               |
|---------------------------------------|-------------------------------|-------------------------------|
| Arkin, Isaac Charles,                 | <i>Roxbury,</i>               | 1 Elm Hill Ave., Rox.         |
| Churchill, Clarence Fielding,         | <i>Yarmouth, N. S.</i>        | Craigie 102, Cambridge.       |
| Davis, Lemuel Morgan,                 | <i>Cape Town, So. Africa,</i> | Craigie 102, Cambridge.       |
| Dewyer, Ernest Edward,                | <i>Brockton,</i>              | 35 Haverhill St., Brockton.   |
| Drea, William Francis,                | <i>Cambridge,</i>             | 46 Ninth St., Cambridge.      |
| Gibbons, James Edward,                | <i>Clinton,</i>               | Craigie 106, Cambridge.       |
| Griffin, Timothy Walter,              | <i>Boston,</i>                | Pond St., Jam. Pl.            |
| Howard, Henry Dwight, Jr.,            |                               |                               |
| B.S. ( <i>Dartmouth Coll.</i> ) 1907, | <i>So. Londonderry, Vt.</i>   | 103 Mt. Vernon St.            |
| Krensky, Samuel,                      | <i>Boston,</i>                | 48 Copeland St.               |
| Lazarus, Isadore Hyam,                | <i>Boston,</i>                | 224 Shawmut Ave.              |
| Malmstrom, Nels Henry,                | <i>Belmont,</i>               | 6 Worcester St., Belmont.     |
| Metcalf, Martin Van Buren,            | <i>Rockville, Conn.</i>       | 4 Baker St., Clifftondale.    |
| Murphy, Raymond James, W.             | <i>Stoughton,</i>             | 126 Canton St., W. Stoughton. |
| O'Connor, Joseph Sylvester,           | <i>Worcester,</i>             | 25 Windsor St., Worcester.    |
| Patten, George Allen,                 | <i>Sullivan, Me.</i>          | 358 Longwood Ave.             |
| Pyne, Robert Edward,                  | <i>Malden,</i>                | 297 Columbus Ave.             |
| Stone, Philip Wilkins,                | <i>Fitchburg,</i>             | Craigie 102, Cambridge.       |
| Sullivan, Frederick Jeremiah,         | <i>Fall River,</i>            | 358 Longwood Ave.             |
| Urofsky, Isadore,                     | <i>Boston,</i>                | 58 Chambers St.               |
| Webber, Ernest Shepard,               | <i>Belfast, Me.</i>           | 4 Baker St., Clifftondale.    |
| Whelan, Walter James,                 | <i>Weymouth,</i>              | 36 Common St., Weymouth.      |



## FIRST YEAR.

|                                   |   |                              |
|-----------------------------------|---|------------------------------|
| Aisner, Julius,                   | <i>Revere,</i>                          | 19 Dana St., Revere.         |
| Canaday, James Wallace, Jr.,      | <i>Albany, N. Y.</i>                    | 23 Rutland Sq.               |
| Cronin, Herbert Joseph,           | <i>Boston,</i>                          | 23 Ball St.                  |
| Davenport, Sebert Ellsworth, Jr., | <i>New York, N. Y.</i>                  | 19 St. James Ave.            |
| Diez, Luis,                       | <i>Argentine Republic, So. America,</i> | 18 Francis St., Rox.         |
| Finkelstein, Bernard,             | <i>Roxbury,</i>                         | 83 Ruthven St., Rox.         |
| Fisher, Guy Harold,               | <i>Pittsfield,</i>                      | 126 St. Botolph St.          |
| Holzman, Albert Charles,          | <i>Boston,</i>                          | 3 Poplar St.                 |
| Killian, Lawrence Joseph,         | <i>Providence, R. I.</i>                | 229 Longwood Ave.            |
| Knight, Leroy Eugene, B.S.        |   |                              |
| ( <i>Norwich Univ.</i> ) 1907,    | <i>Bellows Falls, Vt.</i>               | 19 St. James Ave.            |
| Knight, Ralph Mortimer,           | <i>Bellows Falls, Vt.</i>               | 19 St. James Ave.            |
| McCarty, Daniel Joseph,           | <i>Chelsea,</i>                         | 224 Chestnut St., Chelsea.   |
| MacDonald, Charles Franklin, Jr.  | <i>Boston,</i>                          | 1075 Boylston St.            |
| McGlynn, James Thomas, A.B.       |   |                              |
| ( <i>Holy Cross Coll.</i> ) 1902, | <i>Worcester,</i>                       | 229 Longwood Ave.            |
| Ozon, Wallace Walter,             | <i>Hartford, Conn.</i>                  | 26 Bickerstaff St.           |
| Pease, George Andrew,             | <i>Upton,</i>                           | 23 Rutland Sq.               |
| Price, Harris Wayland,            | <i>Tolland, Conn.</i>                   | 68A Cedar St., Malden.       |
| Reed, Arthur Hodgkins,            | <i>Chelsea,</i>                         | 117 Bellingham St., Chelsea. |
| Siegel, David,                    | <i>Boston,</i>                          | 65 Poplar St.                |
| Wodell, St. Clair Allan,          | <i>Brookline,</i>                       | 12 Kent Sq., Brookline.      |

## SUMMARY.

|                                  |    |
|----------------------------------|----|
| POST-GRADUATE STUDENTS . . . . . | 2  |
| THIRD YEAR STUDENTS . . . . .    | 25 |
| SECOND YEAR STUDENTS . . . . .   | 21 |
| FIRST YEAR STUDENTS . . . . .    | 20 |
| TOTAL . . . . .                  | 68 |

## ADMISSION TO HARVARD DENTAL SCHOOL.

All candidates for admission holding a degree in letters, science, or medicine, from a recognized college or scientific school, or who have passed an examination for admission to Harvard College or any other reputable college of letters or the Lawrence Scientific School, or furnish evidence of having had equivalent training,\* are admitted without examination. All other candidates must pass an examination.

All candidates, whether presenting a degree or not, are required to satisfy the Administrative Board that they have had a course in Theoretical and Descriptive (Inorganic) Chemistry and Qualitative Analysis sufficient to fit them to pursue the courses in Chemistry given at the School, or, failing in this, to pass an examination in General Chemistry and Qualitative Analysis.† Students who are unable to fulfil either of these requirements may enter conditioned in Chemistry.

An opportunity for making up this condition will be furnished during the first half of the first year. Fee for this course, \$20, payable in advance. A deposit of five dollars will be required to meet charges for supplies and broken apparatus.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards, vouching for the facts.

A certificate of having passed the examination for admission will admit a student to this School only so long as the entrance requirements remain the same.

Students who have had a preliminary training equivalent to our requirements for admission and who began their professional studies in other recognized Dental or Medical Schools may be admitted to advanced standing; but all persons who apply for admission to the advanced classes must furnish a satisfactory certificate of time spent in dental or medical studies, and must pass examinations in the branches already pursued by the class to which they seek admittance, or furnish evidence of having passed equivalent examinations.

*Graduates* of recognized dental schools and reputable practitioners of dentistry who have never received a degree will be admitted without

\* Under the provision "equivalent training" students who have completed a four years' scientific or classical course in a reputable High School may be admitted, under certain conditions, without entrance examinations, each case to be decided on its merits.

† The summer course in General Chemistry and Qualitative Analysis given in August at the Dental School is adapted to students about to enter this School. A deposit of five dollars is required to meet charges for supplies and broken apparatus. Fee, \$25, payable in advance.

examination to the courses in Operative and Prosthetic Dentistry, but attendance on such courses does not entitle a student to examination for the degree. A certificate of attendance will be furnished when desired.

### EXAMINATIONS FOR ADMISSION.

Examinations for admission to the Harvard Dental School are held in June at Cambridge and at about fifty other cities in the United States\*; in September they are held at Cambridge only.

### GENERAL REGULATIONS.

#### Registration Blanks.

Candidates for admission by examinations should register for such examinations on a form which may be obtained from the Dean of the Harvard Dental School. The Registration Blanks of all candidates who wish to take examinations in June should be properly filled and in the hands of the Dean by June 10; those of candidates who wish to take examinations in September, by September 10.

#### Good English.

Clear and idiomatic English is expected in all examination papers and note-books written by candidates for admission. Teachers are requested to insist on good English, not only in translations, but in every exercise in which the pupil has occasion to write or to speak English.

#### Laboratory Examinations.

A candidate who is examined in any study in which a laboratory examination is held will hand in his laboratory note-book at *the hour of the laboratory examination*. Laboratory note-books will be deposited, after examination, in the College office, where they will be kept for one year, subject to the order of the owners.

A candidate examined in June at any place where a laboratory examination is not provided will be required to take such an examination in Cambridge in the autumn; but if he passes the written examination in June and presents a satisfactory note-book, the subject will be temporarily counted in his favor in determining the question of his admission to the School.

#### Examination Papers.

A set of recent examination papers will be sent free to any address, on application to the Dean of the Harvard Dental School, 283 Dartmouth St.,

\* A circular giving the dates of the examinations and a full list of the places where they will be held will be ready in January, 1908, and may be had on application to the Dean of the Dental School.

Boston. Separate papers may be had in quantities of not less than *six* copies of any *one paper* (not one each of six different papers) at ten cents a dozen.

### STUDIES IN WHICH EXAMINATIONS ARE HELD.

Examinations for admission to the Harvard Dental School will be held in the following subjects. Each candidate must offer studies amounting to 16 points. Sections 1, 2, 3, 4 are required. Electives may be chosen from Section 5.

The figure attached to each study indicates the relative weight (termed points) which will be given to it in determining the question of the candidate's fitness for admission.

1. English (4)
2. Physics (2)
3. Latin (4)
  - or* French (2) and English and American History (2)
  - or* French (2) and Greek and Roman History (2)
  - or* German (2) and English and American History (2)
  - or* German (2) and Greek and Roman History (2)
4. Theoretical and Descriptive (Inorganic) Chemistry and Qualitative Analysis (4)

In addition he will be obliged to offer either —

5. Algebra (2)
  - Plane Geometry (2)
  - Or any two of the following: —
    - Solid Geometry (1)
    - Botany (1)
    - Zoölogy (1)
    - Anatomy, Physiology, and Hygiene (1)
    - Wood-working (1)
    - Blacksmithing (1)
    - Chipping, Filing, and Fitting (1)
    - Machine-tool Work (1)

The examinations in the above subjects will be the same as those given in these subjects (elementary grade) for admission to Harvard College.

The examination in Theoretical and Descriptive (Inorganic) Chemistry and Qualitative Analysis will be given at the Harvard Dental School.



## English.

The examination will be based on the Uniform Entrance Requirements in English.

The candidate will be required to write short compositions on topics drawn from his reading, and to answer questions on the subject-matter of certain books prescribed for careful study. He will be judged chiefly by the accuracy and the quality of the English he writes. No candidate will be accepted in English whose work is seriously defective in point of spelling, punctuation, grammar, or division into paragraphs.

The Uniform Entrance Requirements in English include two lists of books — one of books prescribed for reading, and one of books prescribed for careful study. The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is expected, not to know them minutely, but to have freshly in mind their most important parts. In connection with the reading and study of the prescribed books he should read other books as parallel or subsidiary reading, and should commit to memory a considerable amount of English poetry.

The books prescribed for reading in 1908 are :—

Shakspeare's *Macbeth* and *The Merchant of Venice*; The Sir Roger de Coverley Papers in the *Spectator*; Irving's *Life of Goldsmith*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

The books prescribed for careful study in 1908 are :—

Shakspeare's *Julius Caesar*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison*, and *Life of Johnson*.

In 1909 the examination in Elementary English will be based on the requirements in English adopted by the College Entrance Examination Board. These requirements are as follows :—

(a) *Reading and Practice*. — A certain number of books will be recommended for reading, ten of which, selected as prescribed below, are to be offered for examination. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number — perhaps ten or fifteen — set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In every case knowledge of the book will be regarded as less important than the ability to write good English. In place of a part or the whole of this test, the candidate may present an exercise-book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be :—

Group I (two to be selected).

Shakspeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected).

Bacon's Essays; Bunyan's *The Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected).

Chaucer's Prologue; Spenser's *Faerie Queene* (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First Series). Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected).

Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens's *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected).

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected).

Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

(b) *Study and Practice*.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

### Physics.\*

A course of study dealing with the leading elementary facts and principles of Physics, with quantitative laboratory work by the pupil.

The instruction given in this course should include qualitative lecture-room experiments, and should direct especial attention to the illustrations and applications of physical laws to be found in every-day life. The candidate is required to pass a written examination, the main object of which will be to determine how much he has profited by such instruction. This examination may include numerical problems. It will contain more ques-

\* For rules relating to the time of handing in note-books and to candidates examined in June in places where no laboratory examination is provided, see page 21.

tions than any one candidate is expected to answer, in order to make allowance for a considerable diversity of instruction in different schools.

The pupil's laboratory work should give practice in the observation and explanation of physical phenomena, some familiarity with methods of measurement, and some training of the hand and the eye in the direction of precision and skill. It should also be regarded as a means of fixing in the mind of the pupil a considerable variety of facts and principles. The candidate is required to pass a laboratory examination, the main object of which will be to determine how much he has profited by such a laboratory course.

The candidate must name as the basis for his laboratory examination at least thirty-five exercises selected from a list of about sixty, described in a publication issued by the University under the title, "Descriptive List of Elementary Exercises in Physics." [*This list may be obtained, price 40 cents, at the Publication Office, 2 University Hall, Cambridge.*] In this list the divisions are mechanics (including hydrostatics), light, heat, sound, and electricity (with magnetism). At least ten of the exercises selected must be in mechanics. Any one of the four other divisions may be omitted altogether, but each of the three remaining divisions must be represented by at least three exercises.

The candidate is required to present a note-book in which he has recorded the steps and the results of his laboratory exercises, and this note-book must bear the endorsement of his teacher, certifying that the notes are a true record of the pupil's work. It should contain an index of the exercises which it describes. These exercises need not be the same as those upon which the candidate presents himself for the laboratory examination, but should be equivalent to them in amount and grade of quantitative work.

The note-book is required as proof that the candidate has formed the habit of keeping a full and intelligible record of laboratory work through an extended course of experiments, and that his work has been of such a character as to raise a presumption in favor of his preparation for the examination. But much greater weight will be given to the laboratory examination than to the note-book in determining the candidate's attainments in physics. Experience has shown that pupils can make the original record of their observations entirely presentable, so that copying will be unnecessary, and they should in general be required to do so.

This course, if taken the last year of the candidate's preparation, is expected to occupy in laboratory work, recitations, and lectures, five of the ordinary school periods, about fifty minutes in length, per week for the whole year. With few exceptions, exercises like those in the Descriptive List already mentioned can be performed in a single school period, but for satisfactory results it will often be necessary to repeat an exercise. Two periods per week for the year should be sufficient for the laboratory work proper. If the course is begun much earlier than the last year of the candidate's preparation, as it well may be, it will require more time.

### Latin.

The examination will be adapted to the proficiency of those who have studied Latin in a systematic course of five lessons a week, extending through at least *three* school years. The passages set for translation



must be rendered into simple and idiomatic English. The three parts of the examination cannot be taken separately:—

(a) The translation at sight of simple Latin prose.

(b) An examination (which may include translation) on the first four books of Virgil's *Aeneid*, or on selected myths from Ovid's *Metamorphoses*, with questions on the subject-matter and on literary and historical allusions. Two years' notice will be given of any change in these alternative requirements.

(c) An examination directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Latin prose.

### German.

(a) The translation at sight of simple German prose. (The passages set for translation must be rendered into simple and idiomatic English.)

(b) The translation into German of simple English sentences, or of easy connected prose, to test the candidate's familiarity with elementary grammar.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than two hundred pages of easy German (including reading at sight in class).

Grammar should be studied concurrently with the reading as an indispensable means of ensuring thoroughness and accuracy in the understanding of the language. The requirement in elementary grammar includes the conjugation of the weak and the more usual strong verbs; the declension of articles, adjectives, pronouns, and such nouns as are readily classified; the commoner prepositions; the simpler uses of the modal auxiliaries; the elements of syntax, especially the rules governing the order of words.

Pronunciation should be carefully taught, and the pupils should have frequent opportunities to hear German spoken or read aloud. The writing of German from dictation is recommended as a useful exercise.

### French.

(a) The translation at sight of ordinary Nineteenth Century prose. (The passages set for translation must be rendered into simple and idiomatic English.)

(b) The translation into French of simple English sentences or of easy connected prose, to test the candidate's familiarity with elementary grammar. Proficiency in grammar may also be tested by direct questions, based on the passage set for translation under (a).

The passage set for translation into English will be suited to the proficiency of candidates who have read not less than four hundred pages (including reading at sight in class) from the works of at least three



different authors. It is desirable that a portion of the reading should be from works other than works of fiction.

Grammar should be studied concurrently with the reading as an indispensable means of ensuring thoroughness and accuracy in the understanding of the language. The requirement in elementary grammar includes the conjugations of regular verbs, of the more frequent irregular verbs, such as *aller*, *envoyer*, *tenir*, *pouvoir*, *voir*, *vouloir*, *dire*, *savoir*, *faire*, and those belonging to the classes represented by *ouvrir*, *dormir*, *connaître*, *conduire*, and *craindre*; the forms and positions of personal pronouns and of possessive, demonstrative, and interrogative adjectives; the inflection of nouns and adjectives for gender and number, except rare cases; the uses of articles, and the partitive constructions.

Pronunciation should be carefully taught, and pupils should have frequent opportunities to hear French spoken or read aloud. The writing of French from dictation is recommended as a useful exercise.

### Chemistry.

#### THEORETICAL AND DESCRIPTIVE (INORGANIC) CHEMISTRY AND QUALITATIVE ANALYSIS.

The requirements in general chemistry include a knowledge of the common non-metallic elements, together with their more important compounds, also the sources and principal salts of common metals. Bradbury's, Long's, Storer and Lindsey's or similar text-books on General Chemistry sufficiently cover the ground. Experimental work performed by the student is highly desirable and strongly recommended.

In analytical chemistry the student is expected to have had a laboratory training which has embraced a *systematic* examination of unknown solutions containing at least four metals. In making this preparation it is suggested that particular attention be paid to metals of silver, arsenic and copper groups, as these have the more important bearing on the subject of Dentistry.

Each candidate will be required to pass a written examination in Theoretical and Descriptive (Inorganic) Chemistry and will be required to hand in, at the hour of this written examination, the original note-book in which he recorded the work performed by him at school in Qualitative Analysis. This note-book must give evidence that the student has had practice in the analysis of solutions and solids containing several salts, and must bear the endorsement of his teacher, certifying that the notes are a true record of his work.

### History (including Historical Geography).

Either of the two following groups, each including two fields of historical study : —

1. *Greek and Roman History*. — (a) Greek History to the death of Alexander, with due reference to Greek life, literature, and art. (b) Roman

History to the accession of Commodus, with due reference to literature and government.

2. *English and American History*. — (a) English History, with due reference to social and political development. (b) American History, with the elements of Civil Government.

For preparation in each of the two historical fields presented, a course of study equivalent to at least three lessons a week for one year will be necessary.

The candidate will be expected to show on examination such general knowledge of each field as may be acquired from the study of an accurate text-book of not less than 300 pages, supplemented by suitable parallel readings amounting to not less than 500 pages. The examination will call for comparison of historical characters, periods, and events, and in general for the exercise of judgment as well as of memory. Geographical knowledge will be tested by means of an outline map.

### Algebra.

Algebra, through Quadratic Equations.

The requirement in Algebra includes the following subjects: factors, common divisors, and multiples, fractions, ratios and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals, and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations and the reduction of equations; the ordinary methods of elimination and the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities and of problems leading to such equations.

The student should cover carefully the whole ground here specified, and should acquire a thorough understanding not only of the practice, but of the reasons involved in the elementary algebraic rules; for example, in the rules of multiplication, of signs, and of exponents, in the rules for fractions, and in those relating to the reduction and solution of equations. He should train himself to practical skill by the solution of a large number of examples, and should learn to do his work with reasonable quickness, as well as with confidence, accuracy, and clearness. The solution of fairly complicated literal quadratics, the various methods of elimination for equations of the first two degrees, the putting of problems in a neat manner into equations, and the working of the various algebraic operations both for integral and fractional expressions may be mentioned as important subjects of attention. The student should be taught to arrange his work in a clear, orderly, and compact fashion.

The time supposed to be devoted to the systematic study of the requirement in Algebra is the equivalent of a course of three lessons a week through two school years.

### Geometry.

Plane and Solid Geometry, including problems in mensuration of plane and solid figures, and original propositions in Plane Geometry.

Geometric education should begin in the kindergarten or primary school, where the child should acquire familiarity through the senses with simple geometric forms, by inspecting, drawing, modelling, and measuring them, and noting their more obvious relations. This study should be followed, in the grammar school, by systematic instruction in Concrete (or Observational) Geometry, of which geometric drawing should form a part. Such instruction should include the main facts of Plane and Solid Geometry, treated as matters of observation, and not as exercises in logical deduction, without however necessarily excluding the beginnings of deductive proof as soon as the pupil is ready for them. Concrete Geometry is believed to have important educational value, and to prepare an excellent foundation for the later study of Formal Geometry. It belongs, however, to the earlier stages of school work, and should not be postponed until the time that belongs to direct preparation for college or the scientific school.

In teaching Formal Geometry, stress should be laid from the outset on accuracy of statement and elegance of form, as well as on clear and strict reasoning. As soon as the pupil has begun to acquire the art of rigorous demonstration, his work should cease to be merely receptive, he should be trained to devise constructions and demonstrations for himself, and this training should be carried through the whole of the work in Plane Geometry. Teachers are advised, in their selection of a text-book, to choose one having a clear tendency to call out the pupil's own powers of thought, prevent the formation of mechanical habits of study, and encourage the concentration of mind which it is a part of the discipline of mathematical study to foster. The subject of Geometry, not a particular treatise, is what the pupil should be set to learn; and its simpler methods and conceptions should be made a part of his habitual and instinctive thought. Lastly, the pupil should be stimulated to good work by interest in the study felt and exhibited by the teacher.

The requirement in Geometry embraces the following topics: the general properties of plane rectilinear figures; the circle and the measure of angles; similar polygons; areas; regular polygons, and the measure of the circle; the relations of planes and lines in space; the properties and measure of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The propositions required under these several heads are those only which are contained in the older treatises, and which are recognized as constituting the Elements of Geometry. The examination does not include the additions introduced into some recent text-books, although most of those additions are in themselves valuable for the student who has time and taste for extra study in this field. A syllabus of the required propositions has been prepared. [*This syllabus may be obtained, price 10 cents, at the Publication Office, 2 University Hall, Cambridge.*]

The examination in Geometry also includes original propositions in Plane Geometry, based on the propositions named in the syllabus, and problems in mensuration in both Plane and Solid Geometry; but excellence in



book-work and in exercises immediately illustrating book-work will be allowed to offset in part any lack of skill in original work.

The time which it is recommended to assign to the systematic study of the requirement in Formal Geometry is the equivalent of a course of five lessons a week for one school year; but it is believed to be advisable to extend this allowance of time over two years.

### Plane Geometry.

The requirement in Plane Geometry is stated on pages 1-14 of the Syllabus mentioned above.

### Solid Geometry.

Chauvenet's Geometry, revised and abridged (Philadelphia: J. B. Lipincott & Co.), Books VI, VII, VIII, and IX, will serve to indicate the nature and amount of the requirement in Solid Geometry.

### Anatomy, Physiology, and Hygiene.

A course of study and laboratory work equivalent to that described in a pamphlet entitled "An Outline of Requirements in Anatomy, Physiology, and Hygiene," issued by the University.

The candidate will be required to pass both a written and a laboratory examination. The written examination will test the range and thoroughness of his knowledge of the elements of Anatomy, Physiology and Hygiene. The laboratory examination will test (*a*) his ability to perform the experiments described in the Outline of Requirements, and (*b*) his knowledge of the first aids to be rendered to the injured.

At the time of the laboratory examination the candidate must present the original note-book containing (with dates) the notes and drawings he has made in the course of his laboratory work, and bearing the endorsement of his teacher, certifying that the book is a true record of the pupil's own observations and experiments. An index of subjects should be appended.

### Botany and Zoölogy.

*Botany.*—A course of study and laboratory work equivalent to that indicated in an "Outline of Requirements in Botany," issued by the University. The course should extend through at least half of a school year, with five lessons a week. The laboratory work is to be directed especially to the external anatomy and the activities of our common plants.

*Zoölogy.*—A course of study and laboratory work equivalent to that described in a pamphlet entitled "An Outline of Requirements in Zoölogy," issued by the University. The course should extend through at least half of a school year, with five lessons a week, and should include

the laboratory study of at least ten types of animals, with special reference to their external anatomy and their activities. These types are to be selected in accordance with directions given in the pamphlet named.

In Botany and in Zoölogy the candidate will be required to pass both a written and a laboratory examination. The written examination will test the range and thoroughness of his knowledge of the subject. The laboratory examination will test his skill in observation and experimentation, and his ability to apply names properly to the parts of the organisms studied.

At the time of the laboratory examination the candidate must present the original note-book containing (with dates) the notes and drawings he has made in the course of his laboratory work, and bearing the endorsement of his teacher, certifying that the book is a true record of the pupil's own observations and experiments. An index of subjects should be appended.

### Shopwork.

A course of instruction in the use of tools and in the ordinary processes employed in the working of wood or metal, equivalent to that described in a pamphlet entitled "An Outline of Requirements in Shopwork," issued by the University. The course may embrace one or more of the following divisions: —

*Wood-working ;*  
*Blacksmithing ;*  
*Chipping, Filing, and Fitting ;*  
*Machine-tool Work.*

The candidate must be familiar with the name, construction, and operation of the tools commonly used in these processes, and will be expected to read ordinary mechanical drawings and to make freehand sketches of articles which are to be produced in the workshop.

The candidate is required to pass both a written and a laboratory examination. The written examination will test his knowledge of tools and mechanical processes, and of the properties of materials of common use in construction. He will be expected to show familiarity with approved methods for simple work in the branch in which he presents himself for examination, and to write an intelligible description of those methods, illustrated by such sketches as may be necessary to make them clear. The laboratory examination will test the candidate's skill in the use of tools. He will receive the materials and specifications for a piece of work, and will be expected to select his tools, preparing them for use if necessary, and to demonstrate satisfactorily his knowledge and skill.

Every candidate is further required to present the original note-book in which he entered the descriptions and sketches of the work he performed at school; and with this he may present, as evidence of his skill in the workshop, the models made by him at school. Both the note-book and the models must be accompanied by the endorsement of his teacher, certifying that the book is a true record, and that the models are specimens of the pupil's own work.

### College Entrance Examination Board.

In June, 1908, certain papers of the College Entrance Examination Board may be substituted for certain papers set for the separate admission examinations held by Harvard University. For more particular information apply to Mr. J. G. Hart, Secretary, 20 University Hall, Cambridge.

The examinations of the Board will be held June 15-20, 1908. Applications to attend the Board's examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N.Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Secretary of the Board on or before Monday, June 1, 1908; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 25, 1908; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 11, 1908.

Applications received later than the dates named will be accepted when it is possible to arrange for the examinations of the candidates concerned, but only upon the payment of \$5.00 in addition to the usual examination fee.

The examination fee is \$5.00 for all candidates examined at points in the United States and Canada, and \$15.00 for all candidates examined at points outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in 1908 will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

### REGISTRATION.

The academic year 1908-09 begins on Thursday, October 1, 1908. All students register at the School on North Grove Street, on that day at 9 A.M.

## ARRANGEMENT OF STUDIES.

The following is the plan of study in the successive years of the School:—

*First Year.*—Anatomy-dissection, Physiology, Histology and Embryology; Physiological, Pathological, and Dental Chemistry, and Metallurgy.

*Second Year.*—Oral Pathology, Operative Dentistry, Oral Surgery, Prosthetic Dentistry, and Orthodontia; Porcelain Work; General and Dental Materia Medica and Therapeutics; Bacteriology; Crown and Bridge Work; practical work daily in the mechanical laboratory and in the operative infirmary.

*Third Year.*—Operative Dentistry, Oral Surgery, Prosthetic Dentistry, Orthodontia, Porcelain Work, Neurology, Surgical Pathology and Surgery, Crown and Bridge Work; Dental Jurisprudence; practical work in operative infirmary and prosthetic laboratory.

## METHODS OF INSTRUCTION.

### Anatomy.

**NOTE.**—The figures at the right of the page indicate as accurately as can be ascertained the number of hours of instruction which each student receives in the different courses.

THOMAS DWIGHT, M.D., LL.D., *Parkman Professor of Anatomy.*

JOHN WARREN, M.D., *Demonstrator of Anatomy.*

ELISHA FLAGG, M.D., *Assistant in Anatomy.*

HARRIS P. MOSHER, M.D., *Assistant in Anatomy.*

CHARLES S. BUTLER, M.D., *Assistant in Anatomy.*

HENRY O. MARCY, Jr., M.D., *Assistant in Anatomy.*

DAVID CHEEVER, M.D., *Assistant in Anatomy.*

DAVID D. SCANNELL, M.D., *Assistant in Anatomy.*

ARIAL W. GEORGE, M.D., *Assistant in Anatomy.*

The instruction consists of lectures; various practical exercises, including abundant dissection under the direction of the Demonstrator; recitations; demonstrations; and study of frozen sections and of the living model. The means and methods of illustrating the anatomical lectures probably are unrivalled in this country. The system of demonstrations to small sections has been greatly extended.

*Text-books.*—Piersol. Cunningham. Quain. Morris. Gray. Gerrish. Woolsey, *Applied Anatomy.*

*Collateral Reading.*—Dwight, *Frozen Sections of a Child.* Cunningham, *Manual of Practical Anatomy.* Macalister, *Human Anatomy.* Testut, *Anatomie Humaine.* Poirier, *Traité d'Anatomie Humaine.* Til-  
laux, *Anatomie Topographique.* Humphry, *Human Skeleton.*



## FIRST YEAR.

*October.*

|   |    |
|---|----|
| Lectures. Professor DWIGHT. <i>Seven hours weekly.</i>                  | 28 |
| Demonstrations and study of bones and joints. <i>Three hours daily.</i> | 60 |

*November and December.*

|   |     |
|---|-----|
| Lectures. Professor DWIGHT. <i>Three hours a week.</i>                              | 24  |
| Demonstrations. Dr. WARREN. <i>Four times a week to sections of the class.</i>      | 32  |
| Practical anatomy with demonstrations. <i>Three hours a day, five times a week.</i> | 120 |

*January.*

|   |    |
|---|----|
| Lectures and demonstrations. Professor DWIGHT. <i>Daily.</i>  | 24 |
| Demonstrations. Dr. WARREN. <i>Four times a week to sections of the class.</i>                          | 16 |
| Practical anatomy with recitations. <i>Three hours a day, five times a week.</i>                        | 60 |
| Demonstrations and study of the brain and organs of sense. <i>Three hours a day, five times a week.</i> | 60 |

**Comparative Anatomy.**

CHARLES S. MINOT, S.D., LL.D., D.Sc., *James Stillman Professor of Comparative Anatomy.*

FREDERIC T. LEWIS, M.D., *Assistant Professor of Embryology.*

JOHN L. BREMER, M.D., *Demonstrator of Histology.*

LEONARD W. WILLIAMS, Ph.D., *Instructor in Comparative Anatomy.*

LUTHER D. SHEPARD, Jr., M.D., D.M.D., *Instructor in Histology.*

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VICTOR E. EMMEL, S.M., Ph.D., *Austin Teaching Fellow in Histology and Embryology.*

RICHARD E. SCAMMON, A.M., *Austin Teaching Fellow in Histology and Embryology.*

**LABORATORY.**

The laboratory comprises the whole southeast wing of the new Morgan Anatomical Building. There are fifteen unit rooms for class work, each of which measures twenty-three by thirty feet, is well lighted, and will be thoroughly equipped as needed. Each unit room is designed for twenty-four elementary or twelve advanced students. There are separate rooms for the various officers, store rooms, collection room, animal room, etc. There is a large library in which complete files of the most important



anatomical and morphological journals will be placed, together with many standard works of reference, and in an adjoining room a collection of about seven thousand pamphlets. A card catalogue and a classified bibliography are maintained which give ready access to the literature.

The laboratory offers exceptional facilities for all kinds of work in comparative anatomy in the broadest sense, including histology and embryology. The former Department of Histology and Embryology has been merged with the new Department of Comparative Anatomy.

The Embryological Collection is a unique feature of the laboratory. It comprises over eleven hundred series of sections of carefully selected typical vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection also includes fifty-one series of sections from human embryos, several of which are of exceptional value, among them being one of the very youngest stages of man yet known.

*Text-books.*—Stohr's Histology, edited by F. T. Lewis. Minot, Text-book of Embryology.

*Collateral Reading.*—Quain, Anatomy. Lee, Microtomist's Vademecum. Kölliker, Gewebelehre. Minot, Human Embryology. Van Gehuchten, Système Nerveux.

#### REGULAR COURSES.

*First year.*—Histology and Embryology are taught by lectures and laboratory work; twenty-two hours a week are required during October, November, and December. Every student is recommended to purchase a microscope, but microscopes may be rented, by those who do not possess them, for three dollars a term. Each student is charged a laboratory fee of three dollars.

#### FIRST YEAR.

*October, November, December.*

|  |     |
|--|-----|
| Lectures. Professor MINOT, Dr. BREMER, Dr. LEWIS. <i>One half-hour, five times a week.</i> | 30  |
| Laboratory work. <i>Three and one-half hours, five times a week.</i>                       | 210 |
| Quiz. <i>Two hours, once a week.</i>   | 24  |

#### Physiology.

WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*

ERNEST G. MARTIN, Ph.D., *Instructor in Physiology.*

EDWARD B. MEIGS, M.D., *Instructor in Physiology.*

*First Year.*—The instruction in Physiology is based, as far as possible, on observations made by the students in laboratory experiments. The experiments are selected to impress the student with the methods and the

most important facts in the various divisions of the subject. Physiological processes not readily observed in the laboratory the student learns with an insight derived from practical experience in experimentation. The arrangement of the experiments is in general such that the student first learns of what activity an organ or tissue is capable, next how certain factors condition or modify that activity, and finally what may be the effect of the activity. The experiments have also been so arranged as to place those with more general bearing first, and those with special interest later. Thus reference to previously acquired information becomes more and more possible as the course proceeds.

The amount of time devoted to laboratory exercises is approximately two hundred hours. Each student is required to preserve a record of his experiments and observations in a laboratory note-book. These records are examined and criticised weekly.

Observations of his own experiments by the student are supplemented by thirty-two special demonstrations. These exercises, some of which are performed by students under the direction of an assistant, are closely correlated with the other objective instruction. The function of the depressor nerve, motor localization in the cerebral cortex, the action of secretin and of enterokinase, and the effects of lymphagogues are examples of subjects which are demonstrated.

The facts observed in the laboratory and in the demonstrations are discussed in lectures and theses. The lectures, about ninety in number, are informal discussions permitting questions by the students or by the instructor. In these discussions the laboratory experiments are correlated with one another and with the body of physiological knowledge. Supplementing the lectures are the theses. A thesis based upon reading of the records of original investigations is required of each student. The preparation of a bibliography on a subject in Physiology is also required. The Bowditch Library of Physiology and Biological Chemistry, containing about four thousand volumes and about twelve thousand reprints, is open to students for reference and reading. There is insufficient time for presenting before the class all the theses written each year. Certain theses of special importance in relation to the regular instruction, between forty-five and fifty in number, are chosen to be presented. In each case two students beside the reader of the thesis are selected to be prepared in some phase of the literature of the subject. These students, after the reading of the thesis, lead the discussion, which is continued by members of the class and the staff. Among the theses read publicly during the past academic year were: Theories of muscular contractility, Color-blindness, Heart-block, Haemolysis, Physiological economy of nutrition, Natural defenses of the organism.

In order that students shall review the work repeatedly as the course proceeds, and also that the instructors may judge the efficiency of the teaching, daily and weekly written tests are given. The daily tests, fifteen minutes in duration and consisting of two questions, serve to emphasize important points in any part of the work recently considered. Following are some of the questions: Does blood enter or leave the ventricle in the interval between the first and second heart sounds? Between the second and first sounds? What is referred pain? What are the relative limits of the various kinds of color-blindness in the normal eye?

The weekly tests, one hour in length, require a more general review of previous work than the daily tests. Usually five questions are asked; as

examples the following are illustrative: What are the effects of stimulating the vasoconstrictor nerves of any particular organ? Cite morphological and physiological evidence for segmental arrangement of the nervous system. Discuss cortical localization.

If in the written tests many students show that certain points are not clearly understood, these points are briefly discussed again before the class. If a student reveals by his answers general failure to grasp the subject intelligently, he is personally conferred with regarding the character of his work. Such conferences are held after the first four weeks of the course, and usually result in a better understanding between the instructor and the student, and frequently in a marked improvement in the student's efforts.

*Text-books.*—No special text-book is required, but the following books are recommended for reading and connection with the course: Text-book of Physiology, edited by E. A. Schäfer. Howell, Text-book of Physiology. Tigerstedt, Text-book of Physiology. Hermann, Lehrbuch der Physiologie. Porter, Introduction to Physiology. Nagel, Handbuch der Physiologie.

#### FIRST YEAR (Second half).

Laboratory experiments. Professor CANNON, and Drs. MARTIN and MEIGS.

*Daily, except Saturday.* 200

Written tests (76). *Fifteen minutes daily, except Monday and Saturday.* 19

Written tests (15). *One hour, Mondays.* 15

Lectures (90). Professor CANNON, and Drs. MARTIN and MEIGS. 90

Special demonstrations (32). Professor CANNON, and Drs. MARTIN and MEIGS. 16

Discussion of Theses (50). 38

Thesis. Written by each student from the original sources.

Reading of investigations. The reading of investigations and the discussion of these at the appropriate conference.

#### INVESTIGATION.

Any student, properly qualified, who desires to engage in physiological research will be welcomed into the laboratory and will be offered every facility for research which the laboratory affords.

#### Comparative Physiology.

WILLIAM T. PORTER, M.D., *Professor of Comparative Physiology.*

#### GRADUATE COURSES.

I. *Physiological Research.* Students qualified for research will pursue their investigations under the immediate direction of Professor W. T. PORTER.

II. *Comparative Physiology of Muscle.* Professor PORTER. Three hours weekly during February and March.

III. *Physiological Conference.* Professor PORTER. Demonstrations with informal discussions of selected problems in physiology. Mondays, 5 to 6 P.M., throughout the year.

### Dental and Physiological Chemistry.

H. CARLTON SMITH, Ph.G., *Lecturer on Dental Chemistry.*

This course aims to make practical application of the various branches of chemical science to meet the requirements of the student of Dental Medicine.

Particular attention is given to the study of saliva and urine and, as far as possible, to the determination of relations which may exist between these fluids and certain pathological conditions of interest in dental practice.

During the first year this work includes laboratory methods, analysis, etc., and forms a part of the course in Physiological Chemistry.

In the third year it is reviewed in connection with the cases in the infirmary, where the student puts observed conditions of the oral cavity with the results of laboratory investigation, and thus obtains a comprehensive basis for the study of cause and effect; the arrangement being designed to give general information on the subject necessary to intelligent reading, and possible subsequent investigations of an original character. Opportunities for special investigation will be offered such students as can give the necessary time in the laboratory.

The Dental Chemistry includes instruction in blow-pipe work, the principles of volumetric analysis, and the assay of dental alloys; also microchemical tests, with special reference to the examination of local anaesthetics and antiseptics; the chemistry of the teeth, salivary calculus and saliva.

The Physiological Chemistry includes a short introductory course in Organic Chemistry sufficient to an intelligent consideration of the composition of the carbohydrates and the proteids, their relationship, chemical properties, and methods of precipitation and separation; also the chemistry of the fats, of digestion, of the different tissues, of bile, blood, lymph, milk, and urine.

#### FIRST YEAR.

Lectures. Mr. SMITH. *Five times a week throughout the second half of the first year.* 75

Demonstrations or Laboratory Experiments. Mr. SMITH. *Three hours a day, five times a week.* 225



## THIRD YEAR.

Conferences. Mr. SMITH. *One hour, six times.* 6

*Text-books.*—Chemistry for Dental Students, Smith. Dental Metallurgy, Essig. Physiological Chemistry, Hammarsten or Novy. Clinical Examination of the Urine, Ogden or Purdy. Examination of the Urine, Saxe.

*Collateral Reading.*—Halliburton, Text-book of Chemical Physiology and Pathology. Simon, Physiological Chemistry. Bunge, Physiologic and Pathologic Chemistry. Gamgee, Physiological Chemistry of the Animal Body. Lea, Chemical Basis of the Animal Body (appendix to Foster's Text-book of Physiology). Vaughan and Novy, Cellular Toxins. Diseases of Metabolism and Nutrition, by Dr. Carl von Noorden. The Principles of Animal Nutrition, Armsby. Mitchell's Dental Chemistry. Dorland's American Illustrated Medical Dictionary.

## Bacteriology.

HAROLD C. ERNST, M.D., *Professor of Bacteriology.*

CALVIN G. PAGE, M.D., *Assistant in Bacteriology.*

CLEAVELAND FLOYD, M.D., *Austin Teaching Fellow in Bacteriology.*

HENRY J. PERRY, M.D., *Assistant in Bacteriology.*

ARTHUR W. WORTHINGTON, M.D., *Assistant in Bacteriology.*

EUGENE E. EVERETT, M.D., *Assistant in Bacteriology.*

LANGDON FROTHINGHAM, M.D.V., *Instructor in Bacteriology.*

Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria.

Lectures. Professor ERNST. *Daily, except Saturdays, during October and November.* 40

Laboratory work. Professor ERNST, and Drs. FROTHINGHAM, PAGE, PERRY, EVERETT, FLOYD, and WORTHINGTON. *Two to three hours daily during October and November.* 120

*Text-books.*—Muir and Ritchie. Abbott. Park.

*Collateral Reading.*—Sternberg. Heim. Migula. Kolle and Wasserman.



### Operative Dentistry.

- WILLIAM H. POTTER, D.M.D., *Professor of Operative Dentistry.*  
 EDWIN C. BLAISDELL, D.M.D., *Instructor in Operative Dentistry.*  
 NED A. STANLEY, D.M.D., *Instructor in Operative Dentistry.*  
 JOSEPH T. PAUL, D.M.D., *Instructor in Operative Dentistry.*  
 JAMES A. FURFEY, D.M.D., *Instructor in Operative Dentistry.*  
 MARQUIS D LITTIG, D.D.S., D.M.D., M.D., *Instructor in Operative Dentistry.*  
 EDWIN L. FARRINGTON, D.M.D., *Instructor in Extracting and Anaesthesia.*  
 WILLIAM D. SQUAREBRIGS, D.M.D., *Instructor in Extracting and Anaesthesia.*  
 SAMUEL T. ELLIOTT, D.M.D., *Instructor in Operative Dentistry.*  
 CHARLES G. PIKE, D.M.D., *Instructor in Operative Dentistry.*  
 MELVILLE F. ROGERS, D.M.D., *Instructor in Operative Dentistry.*  
 ROBERT WHITEHILL, D.M.D., *Instructor in Operative Dentistry.*  
 JAMES J. O'BRIEN, D.M.D., *Instructor in Extracting and Anaesthesia.*  
 HARRY B. SHUMAN, D.M.D., *Instructor in Oral Surgery and Roentgenology.*  
 MARTIN B. DILL, D.M.D., *Instructor in Operative Dentistry.*  
 LEROY M. S. MINER, D.M.D., *Instructor in Oral Surgery.*  
 BENJAMIN TISHLER, D.M.D., *Instructor in Extracting and Anaesthesia.*  
 EUGENE B. WYMAN, D.M.D., *Demonstrator of Operative Dentistry.*  
 CHARLES E. STEVENS, D.M.D., *Assistant in Operative Dentistry.*  
 ALBERT L. MIDGLEY, D.M.D., *Assistant in Extracting and Anaesthesia.*  
 ERNEST V. L. WHITCHURCH, D.M.D., *Assistant in Operative Dentistry.*  
 HARRY A. STONE, D.M.D., *Instructor in Extracting and Anaesthesia.*

The instruction in this department is distributed over the second and third years. In the second year there is one lecture every week. These lectures deal first with the elemental principles of operative dentistry and then with the application of these principles to the simpler forms of operative work. Practical work is carried on five mornings in the week during the year. The student is first required to arrange extracted teeth in a metal model which imitates the shape of the jaws. Upon teeth thus mounted a variety of operations is performed. Thus familiarity with instruments, and ability in their use is developed. When a student has acquired operative ability by work upon the model, he is given patients. Upon these patients he performs at first the simpler operations, then the more difficult ones. In the course of the year all the more usual operations are performed.

In the third year there is one lecture every week. These lectures deal with extraction and anaesthesia and with advanced processes in operative

dentistry. They are arranged so as to be a natural continuation of the lectures of the second year. Practical work is carried on five afternoons in the week, and students are required to satisfactorily perform all the accredited operations belonging to the practice of dentistry. During both the second and third years instruction is given six days in the week in extraction and anaesthesia, and students are required to fully qualify themselves in this department.

During the entire summer vacation the extracting, anaesthesia, and oral surgery clinics are continued, and students have the privilege of a large amount of voluntary work at this time.

*Clinical Lectures on Operative Dentistry.*—These exercises are intended to demonstrate the individual methods of the lecturers. They include brief lectures, the exhibition of models, and practical operations upon patients.

Lectures. Professor POTTER and Dr. DILL. *Twice a week.* 60

#### Lectures and Clinics.

Lectures. Oral Surgery and Roentgenology. Dr. SHUMAN. *Once a week for eight weeks.* 8

Clinics. Drs. SHUMAN and MINER. *Two to three hours, once a week.* 60

Practical work. Drs. STANLEY, BLAISDELL, DILL, PAUL, WYMAN, STEVENS, ELLIOTT, LITTIG, FURFEY, WHITEHILL, PIKE, and WHITCHURCH. *Fifteen hours a week, throughout the second and third years.* 960

Extracting Clinics. Drs. FARRINGTON, TISHLER, MIDGLEY, STONE, SQUAREBRIGGS, and O'BRIEN. *Two hours a day, throughout the second and third years.* 720

Samaritan Hospital Clinic. Dr. ROGERS. *Three hours, alternate weeks, throughout the third year.* 60

*Text-books.*—American Text-Book of Operative Dentistry. American System of Dentistry. Marshall, Oral Surgery. Marshall, Operative Dentistry. Johnson, Principles and Practice of Filling Teeth. Hewitt, Anaesthetics and Their Administration. Le Fevre, Physical Diagnosis.

#### Orthodontia and Prosthetic Dentistry.

EUGENE H. SMITH, D.M.D., *Professor of Orthodontia and Prosthetic Dentistry.*

WILLIAM P. COOKE, D.M.D., *Assistant Professor of Prosthetic Dentistry.*

AMOS I. HADLEY, D.M.D., *Instructor in Porcelain Work.*

THOMAS B. HAYDEN, D.M.D., *Instructor in Prosthetic Dentistry.*

ROBERT T. MOFFATT, D.M.D., *Instructor in Porcelain Work.*

ERNEST H. CHUTE, D.M.D., *Instructor in Prosthetic Dentistry.*

HAROLD DEW. CROSS, D.M.D., *Lecturer on Prosthetic Dentistry.*

HARRY W. HALEY, D.M.D., *Instructor in Prosthetic Dentistry.*

JOHN D. DICKINSON, D.M.D., *Clinical Instructor in Prosthetic Dentistry.*

LAWRENCE W. BAKER, D.M.D., *Instructor in Orthodontia.*

HORACE A. DAVIS, D.M.D., *Instructor in Prosthetic Dentistry.*

JOHN W. ESTABROOKS, D.M.D., *Instructor in Prosthetic Dentistry.*

WILSON C. DORT, D.M.D., *Instructor in Prosthetic Dentistry.*

HERBERT F. LANGLEY, D.M.D., *Instructor in Prosthetic Dentistry.*

WILLIAM H. WESTON, D.M.D., *Instructor in Prosthetic Dentistry.*

HARRY S. CLARK, D.M.D., *Instructor in Prosthetic Dentistry.*

FRANK LER. EAMES, D.M.D., *Instructor in Prosthetic Dentistry.*

JOHN A. FURBISH, D.M.D., *Instructor in Prosthetic Dentistry.*

LEO A. ROGERS, D.M.D., *Instructor in Prosthetic Dentistry.*

HORACE L. HOWE, D.M.D., *Instructor in Orthodontia.*

VARAZTAD H. KAZANJIAN, D.M.D., *Assistant in Prosthetic Dentistry.*

HOWARD W. BALDWIN, D.M.D., *Assistant in Prosthetic Dentistry.*

FRED A. BECKFORD, D.M.D., *Assistant in Prosthetic Dentistry.*

WALTER C. MINER, D.M.D., *Assistant in Prosthetic Dentistry.*

Lectures and demonstrations to the second and third class in sections followed by practical work in the laboratory : the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth ; and the manner in which gold and silver plates are prepared and adapted to the mouth ; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of Dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

*Orthodontia* is taught by lectures and by practical work in the Infirmary. During the first half of the second year, through lectures and demonstrations, the students are made familiar with the principles of normal occlusion and the various apparatus for the correction of irregularities. This is followed during the second half of the year by lectures and recitations on etiology. In the third year each student is obliged to take not less than two cases of irregularities and carry them to completion under the direction of the Professor in charge and his assistants. At the Saturday morning clinic, and on Tuesday and Thursday afternoons conferences are held on the cases under treatment. Lectures are also given which treat of the diagnosis and treatment of the various forms of malocclusion.

Lectures. Professor SMITH. *Once a week, throughout the third year.* 30

Lectures. Dr. CROSS. *Once a week, throughout the second year.* 30

Lectures. Dr. BAKER. *Once a week, throughout the second half of second year.* 15

|  |      |
|--|------|
| Clinical Instruction. Dr. J. D. DICKINSON. Private Laboratory. <i>Once a week, for eight weeks.</i>  | 12   |
| Practical work. Drs. HAYDEN, CROSS, CHUTE, HALEY, EAMES, WESTON, CLARK, DORT, LANGLEY, FURBISH, DAVIS, L. A. ROGERS, KAZANJIAN, BALDWIN, BECKFORD, and MINER. <i>Eighteen hours a week, throughout the second and third years.</i> | 1080 |
| Orthodontia Clinics. Professor SMITH, Drs. BAKER and HOWE. <i>Two hours a week, throughout the third year.</i>   | 60   |
| Conference. Dr. HOWE. <i>Twice a week.</i>   | 60   |

*Text-books.* — Essig, American Text-book of Prosthetic Dentistry. Richardson, Mechanical Dentistry. Turner's Prosthetic Dentistry. Kingsley, Oral Deformities. Harris, Principles and Practice. Harris, Dictionary of Dentistry.

### Orthodontia.

*Text-books.* — Farrar, Irregularities of the Teeth. Talbot, Irregularities. Guilford, Orthodontia. Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillae.

### Porcelain Work.

ROBERT T. MOFFATT, D.M.D., *Instructor in Porcelain Work.*  
 AMOS I. HADLEY, D.M.D., *Instructor in Porcelain Work.*

|  |     |
|--|-----|
| Lectures and Clinics. Dr. HADLEY. <i>Four hours a week, throughout the third year.</i>                               | 120 |
| Clinical Lectures. Dr. MOFFATT. <i>Three hours a week for four weeks, during the second half of the second year.</i> | 12  |
| Demonstrations. Dr. MOFFATT. <i>Three hours a week for eight weeks, during the second half of the third year.</i>    | 24  |

Demonstrations in continuous gum and inlay work in the mechanical laboratory and infirmary. Also demonstrations of methods of carving and enameling porcelain teeth and crowns, and use of paint and mineral stains, together with the making of bodies and enamels.

*Text-books.* — Gilbert, Notes on Dental Porcelain. Bruck, The Filling of Teeth with Porcelain. Peck, Porcelain Inlays.

### Crown and Bridge Work.

WILLIAM P. COOKE, D.M.D., *Assistant Professor of Prosthetic Dentistry.*  
 ARTHUR W. ELDRED, D.M.D., *Instructor in Prosthetic Dentistry.*  
 JOHN W. ESTABROOKS, D.M.D., *Instructor in Prosthetic Dentistry.*  
 JULIUS F. HOVESTADT, D.M.D., *Assistant in Crown and Bridge Work.*



Lectures and demonstrations. Asst. Professor COOKE. *Once a week.* 30  
 Demonstrations. Drs. ELDRÉD, ESTABROOKS, and HOVESTADT. *Once a week.* 75

Lectures and specimen work in laboratory, followed by practical work in the Infirmary.

*Text-books.* — EVANS, Crown and Bridge Work. ESSIG, American System of Dentistry. HODGEN, Dental Metallurgy. ESSIG and KOENIG, Dental Metallurgy. GOSLEE, Principles and Practice of Crowning Teeth.

### Lectures and Clinics.

On Saturday afternoons in January, February, and March, 1908, special lectures and clinical instruction will be given to third-year students as follows: —

- Dr. FREDERICK S. BELYEA, Boston. Facial restoration by the use of plumpers on artificial dentures.  
 Dr. SEBERT E. DAVENPORT, New York. The odds and ends of daily practice.  
 Dr. HENRY W. GILLETT, New York. Pyorrhea.  
 Dr. HENRY F. HAMILTON, Boston. Porcelain Inlays and Crowns.  
 Dr. H. WINCHESTER HARDY, Boston. Devitalization of an unexposed pulp by pressure anaesthesia without the use of a syringe.  
 Dr. GURDON R. MACKEY, Boston. Contour gold filling in upper bicuspid.  
 Dr. HERBERT L. WHEELER, New York. Combination filling.  
 Dr. COLEMAN TOUSEY, Boston. Comparative Dental Anatomy.\*

A similar course of clinical instruction was given in 1907 by the following men: Dr. Forrest G. Eddy, Boston; Dr. Henry W. Gillett, New York; Dr. Arthur A. Libby, Boston; Dr. Jean J. Loizeaux, Boston; Dr. Ned A. Stanley, New Bedford.

### Surgery, Surgical Pathology, and Oral Surgery.

GEORGE H. MONKS, M.D., *Lecturer on Surgery.*

JOHN BAPST BLAKE, M.D., *Instructor in Surgery.*

Lectures embracing the general subjects of inflammation, suppuration, ulceration, gangrene, necrosis, erysipelas, septicemia, pyemia, shock, repair, etc.; and special subjects which more particularly concern Oral Surgery. These lectures will be illustrated, so far as possible, by diagrams, by demonstrations of pathological specimens, and by exhibition of clinical cases at the Boston City Hospital. Instruction will be given in the use of anaesthetics.

\* Monday, February 17, at 9 o'clock. Lecture Room B.



Lectures. DR. MONKS. *Once a week for eleven weeks.* 11  
 Clinics. DR. BLAKE. *Once a week for two months, at the Boston City Hospital.* 8 or 9

*Text-books.*—American Text-book of Surgery. Warren, Surgical Pathology. Grant, Surgical Diseases of the Face, Mouth, and Jaws.

### Operative Surgery.

Operations are performed before the students one day each week throughout the year in the Amphitheatres at the Massachusetts General Hospital and the Boston City Hospital.

The surgical cases at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

### Syphilis.

C. MORTON SMITH, M.D., *Instructor in Syphilis.*

Second and third years. Lectures and Clinical Instruction.

### Dental Pathology.

CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology.*

SAMUEL A. HOPKINS, M.D., D.D.S., *Instructor in Dental Pathology.*

In the beginning of the course of lectures the general principles of Pathology, including Etiology, Nosology, Semeiology, Diagnosis, and Prognosis, are outlined. The various pathological conditions in their relations to one another and their modifications of structure and function are taught. This prepares the way for the special pathology of the region with which the dentist has most to do. The diseases of the dental and contiguous tissues are considered in detail, with reference to their nature, causes, manifestations and terminations, and their relations with systematic conditions. The lectures will be supplemented with clinical demonstrations of pathological conditions.

Lectures. PROFESSOR BRACKETT. *Once a week.* 30  
 Clinical Conferences. DR. HOPKINS.

*Text-books.*—Barrett, Oral Pathology and Practice. Miller, Micro-organisms of the Human Mouth.

*Collateral Reading.*—Warren, Surgical Pathology and Therapeutics. Burchard, Dental Pathology, Therapeutics, and Pharmacology.

### Materia Medica and Therapeutics.

EDWARD C. BRIGGS, M.D., D.M.D., *Professor of Dental Materia Medica and Therapeutics.*

Lectures, recitations, and demonstrations of crude drugs and their preparations. This is a complete course, as taught in the Medical School to medical students. Remedies are classified, however, to meet the special requirements of the dental practitioner, and the student is particularly instructed upon those remedies which, as a specialist, he will be called upon most to use.

Lectures. Professor BRIGGS. *Once a week.* 30

*Text-books.* — Potter, *Materia Medica, Pharmacy, and Therapeutics.* Wood, *Therapeutics, Materia Medica, and Toxicology.* Butler, *Materia Medica, Pharmacology, and Therapeutics.* Stevens, *Materia Medica and Therapeutics.*

*Collateral Reading.* — Hare, *Practical Therapeutics.* Thompson, *Dietetics.*

### Neurology.

EDWARD W. TAYLOR, M.D., *Instructor in Neurology.*

A course of four lectures on Neurology will include a brief review of the anatomy and physiology of the nervous system, the anatomy of the trifacial nerve being made the subject of special study.

The nervous disturbances liable to be set up by dental irritation, and, conversely, those likely to produce odontalgia, will be considered as fully as the limited nature of the course permits, special attention being paid to trifacial neuralgia.

Lectures. Dr. TAYLOR. *Once a week for four weeks.* 4

To be followed by clinics at the Massachusetts General Hospital.

### CLINICAL ADVANTAGES.

The Dental School is established in Boston in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford a sufficient number of patients to give every student abundant practice in all branches of Dentistry throughout the year.

Each student is assigned a chair, and is expected to improve his opportunity and operate three hours every day, five days in the week, giving each student during each year 480 hours of practice in Operative Dentistry.

In the mechanical department the student gives three hours a day for six days each week, giving 576 hours of practice each year.

*Dental Statistics.* — For the year 1906-07 :

## Operative department : —

|                                   |        |
|-----------------------------------|--------|
| No. of patients treated . . . . . | 5,772  |
| “ “ “ for diseases of the teeth   |        |
| and gums . . . . .                | 1,367  |
| “ sets of teeth cleaned . . . . . | 787    |
| “ operations . . . . .            | 12,330 |
| “ fillings — gold . . . . .       | 1,564  |
| “ “ amalgam . . . . .             | 1,671  |
| “ “ cement . . . . .              | 632    |
| “ “ gutta percha . . . . .        | 1,570  |
| “ “ enamel . . . . .              | 226    |

## Other Surgical cases : —

|                                    |    |
|------------------------------------|----|
| Necrosis . . . . .                 | 8  |
| Antrum disease . . . . .           | 4  |
| Epulis . . . . .                   | 4  |
| Cleft palate . . . . .             | 1  |
| Impacted teeth . . . . .           | 16 |
| Hare-lip . . . . .                 | 1  |
| Alveolar abscess . . . . .         | 8  |
| Plastic operation . . . . .        | 1  |
| Stomatitis . . . . .               | 2  |
| Ulcerative stomatitis . . . . .    | 1  |
| Refracturing of mandible . . . . . | 1  |

## Inlay work. — Service to patients.

|                                   |    |
|-----------------------------------|----|
| No. of porcelain inlays . . . . . | 91 |
| “ gold inlays . . . . .           | 34 |
| “ porcelain tips . . . . .        | 18 |

## Inlay work. — Practice work.

|                                   |    |
|-----------------------------------|----|
| No. of porcelain inlays . . . . . | 36 |
|-----------------------------------|----|

## Mechanical department. — Service to patients.

|  |       |
|--|-------|
| No. of patients treated . . . . .            | 1,226 |
| “ sets of artificial teeth . . . . .         | 159   |
| “ “ “ “ repaired . . . . .                   | 130   |
| “ partial sets of artificial teeth . . . . . | 129   |

## Mechanical Laboratory. — Practice work.

|                                  |     |
|----------------------------------|-----|
| No. of specimen plates . . . . . | 121 |
|----------------------------------|-----|

## Fractured Jaws. — Service to patients.

|                                |    |
|--------------------------------|----|
| No. of cases treated . . . . . | 25 |
| “ appliances . . . . .         | 27 |

## Artificial Palates. — Service to patients.

|  |    |
|--|----|
| No. of cleft palates treated . . . . . | 11 |
| “ obturators . . . . .                 | 5  |
| “ cleft palate appliances . . . . .    | 10 |

## Orthodontia. — Service to patients.

|  |     |
|--|-----|
| No. of patients treated for irregularities of the<br>teeth . . . . . | 93  |
| “ appliances . . . . .   | 161 |
| “ articulated models of regulating cases .                           | 118 |

## Orthodontia. — Practice work.

|   |    |
|---|----|
| No. of articulated models of regulating cases . | 15 |
| “ regulating appliances . . . . .               | 60 |

## Crown and Bridge Work. — Service to patients

|  |     |
|--|-----|
| No. of crowns and caps . . . . .         | 147 |
| “ “ repaired . . . . .                   | 25  |
| “ pieces of bridge work . . . . .        | 48  |
| “ pieces of bridge work repaired . . . . | 15  |
| “ carved crowns . . . . .                | 32  |

## Crown and Bridge Work. — Practice work

|                                  |    |
|----------------------------------|----|
| No. of crowns and caps . . . . . | 75 |
| “ bridges . . . . .              | 45 |
| “ carved teeth models . . . . .  | 5  |

*The Massachusetts General Hospital.* — During the past year, more than five thousand patients were treated in the wards, and over thirty thousand in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week. Operations are numerous, and are performed in the amphitheatre, which is provided with seats for 400 persons.

*The Boston City Hospital.* — During the past year, about nine thousand cases were treated in its wards, and twenty-two thousand in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, eight hundred street accidents are reported yearly.

In these two hospitals, the facilities for witnessing operative surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly

two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

*The Boston Dispensary.*—More than forty thousand patients were treated at this public charity during the past year. Students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery.

*The Massachusetts Charitable Eye and Ear Infirmary.*—Over thirty thousand patients were treated at this institution during the past year. These cases present every variety of disease of the ear and eye, and supply a large number of operations. A new and enlarged hospital, considered to be one of the best of its kind in the world, has been erected on land adjoining the Massachusetts General Hospital. It is believed that this building will provide adequately for the proper treatment of the constantly increasing number of patients.

## LIBRARIES AND MUSEUMS.

The College Library at Cambridge is open to students, and also the Library of the Boston Medical Library Association, which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the American Academy of Dental Science and the Massachusetts Dental Society. There is a good reference library of modern books, including encyclopaedias, systems, etc. The Library is open daily except Sundays and holidays, from 9 A.M. to 6 P.M. It is also open Tuesday and Friday evenings from 7 to 10, except during July and August.

The Dental School Library for reference only also contains about one thousand well selected volumes to which the students and graduates of the School have free access.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this Library.

The Dental Museum is in charge of Dr. WALDO ELIAS BOARDMAN, *Curator*. It contains over 3500 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 2000 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens of great value. There are 700 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.



## WARREN ANATOMICAL MUSEUM IN THE MEDICAL SCHOOL.

The Warren Anatomical Museum was founded in 1847 by JOHN COLLINS WARREN, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to JOHN WARREN, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures. Its Curator is Dr. WILLIAM FISKE WHITNEY.

The collection has about nine thousand specimens, illustrating both normal and pathological anatomy and *materia medica*. These are placed in the hands of the student at any time during the day, upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosive preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, preserved in their natural colors by Kaiserling's method.

## EXAMINATIONS.

The final examination in every required subject is held at the close either of the first or of the second term of the school year. The examination, therefore, in every subject occurs once a year, but an opportunity to make up failures in examinations is offered at the opening of the school year. The examination in certain studies of the first year is held at *mid-year* only, and is for those who are members of the School at the time, and for those entitled to apply for the degree, provided they have failed previously in those subjects. The *June examination* is only for those who are members of the School at the time, and for those entitled to apply for the degree. The *September examination* is for conditioned students or for applicants for advanced standing. In some branches a portion of the examination consists of practical work in the laboratory.

The amount of time allowed for each examination is as follows :—

*First Year*.—Anatomy\* (3 hrs.), Histology\* (1 hr.), Physiology (3 hrs.), Physiological and Dental Chemistry (3 hrs.).

*Second Year*.—Dental Pathology (3 hrs.), *Materia Medica* and Therapeutics (2 hrs.), Operative Dentistry (3 hrs.), Bacteriology\* (1 hr.), Prosthetic Dentistry and Orthodontia (2 hrs.), Crown and Bridge Work (2 hrs.).

\* The examinations in these subjects are held at the end of the first half-year.

*Third Year.*—Operative Dentistry (2 hrs.), Surgical Pathology and Surgery (3 hrs.), Prosthetic Dentistry (2 hrs.), Orthodontia (2 hrs.), Crown and Bridge Work (2 hrs.). These examinations will include operations upon patients performed during the course.

In addition to the above examinations every student is required :—

- To dissect the three parts of the body to the satisfaction of the Demonstrators ;
- To satisfactorily complete the required specimens of Prosthetic Dentistry for the Junior and Senior years ;
- To demonstrate his ability to meet satisfactorily the requirements in Operative Dentistry ;
- To successfully carry on the treatment of at least two cases of irregularities of the teeth.

Students shall not be entitled to enter the third-year class in practical Operative and Prosthetic Dentistry until they have shown reasonable proficiency in the work of the second year.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

No student will be allowed to anticipate the examinations in the regular programme of his year, except by special permission of the Administrative Board.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1908-09 will begin June 1 and September 24, 1908. After two failures to pass in any subject, a student must give notice twenty-four hours in advance, at the Dean's office, of his intention to take each subsequent examination in that subject, and pay a charge of three dollars.

### STATE BOARD EXAMINATION.

Students shall not take a State Board examination in Dentistry previous to the time of the final examinations of their Senior year, without a written permission from the Dean of the Dental School.

### DIVISION OF STUDENTS.

Students are divided into three classes according to their lines of study and proficiency, and during their Junior and Senior years will receive extensive opportunities for clinical instruction and for practice in actual operations on the natural teeth and mouth.

*In order that the time of study may count as a full year, students of all classes must present themselves within the first week of the academic year and register their names with the Dean.*

## REQUIREMENTS FOR THE DEGREE.

The degree of DOCTOR OF DENTAL MEDICINE (*Dentariae Medicinae Doctoris*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations*. He must also give evidence of having studied Medicine or Dentistry in some recognized school three full years, the last continuous year of which must have been spent at this School.

The degree of Doctor of Dental Medicine *cum laude* will be given to candidates who have pursued a complete three years' course in this School and obtained not less than eighty per cent. in Practical Operative and Prosthetic Dentistry and an average of eighty per cent. or over in all other required examinations.

The course is a graded one of three continuous years. *Graduates* from other reputable Dental Schools whose Course of Instruction consists of three years of nine months each may obtain the degree of Doctor of Dental Medicine by spending one year in the School and passing the required examinations.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

## INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, flasks, impression trays, blow-pipes and articulators, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

No dental instruments are required during the first year. At the beginning of the second year a list of instruments required for use in both the Operative and Prosthetic Departments is furnished by the School, and each student is required to provide himself with the instruments enumerated upon the lists before beginning his work. The cost of these instruments, including the dental engine, is about one hundred and twenty-five dollars.

## FEES AND EXPENSES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year of a student's membership in the School, the fee is *two hundred dollars*, in two payments of *one hundred and twenty dollars* and *eighty dollars*; for the second and third years, *one hundred and fifty dollars* each, in two payments of *ninety dollars* and *sixty dollars*; and for any subsequent year, *fifty dollars*.

During the first year there are the following additional expenses: Two dollars for each of the three parts required for dissection; three dollars for



laboratory materials in Histology ; three dollars for physiological material ; and a maximum of ten dollars a year for chemical material, in addition to the charge for breakage of glass apparatus. Students are required to deposit with the Bursar\* six dollars to cover Anatomy charges, three dollars for Histology, and twenty dollars for Chemistry and Physiology. During the second and third years a deposit of ten dollars is required to cover any loss or breakage of appliances in the Infirmary and Mechanical Laboratory. The balances of these deposits are returnable at the end of the year.

A deposit of two dollars with the Dean of the Medical School will entitle a student to the use of a locker in the Medical School buildings during the first year.

A student who wishes to rent a microscope of the School can do so upon payment of three to six dollars a half-year.

Special students, admitted to the courses in Operative and Prosthetic Dentistry for the whole or any portion of the academic year, pay a fee of *fifty dollars* for each course.

The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places, at various prices, can be obtained at the rooms of the Young Men's Christian Association, corner of Berkeley and Boylston Streets, and the rooms of the Young Men's Christian Union, No. 48 Boylston Street, Boston.

Students' expenses may also be reduced by occupying rooms in the College dormitories in Cambridge. Information in regard to College rooms may be obtained after March 6 upon application to the Bursar.

At Randall Hall, Cambridge, board is furnished à la carte, at a cost which averages about \$3.00 a week. Application should be made early to the Secretary of the Randall Hall Association, but any student who lives in a College room, or boards at Randall Hall, must file a bond in the sum of *four hundred dollars*; or deposit *four hundred dollars* in money or United States Bonds; or deposit fifty dollars as security, pay his tuition-fees in advance as above, pay in advance the full year's rent of any room that may be assigned to him, and make a deposit with the Bursar as security for the payment of his board at the rate of five dollars a week.

#### Stillman Infirmary Fee.

*Not later than October 10* in each academic year, any student may pay to the Bursar the sum of four dollars for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

\* The Bursar's office is in Dane Hall, Harvard Square, Cambridge. Hours 9-1.

### PAYMENT OF FEES.

Each first-year student is required to pay to the Bursar punctually at the beginning of the academic year, without the presentation of a bill, the sum of one hundred and forty-nine dollars; each second and third-year student is required to pay, in like manner, one hundred dollars; each student entering any subsequent year is required to pay, in the same manner, fifty dollars. The remainder of the tuition fee—eighty dollars for the first-year students and sixty dollars for the second and third-year students—must be paid to the Bursar on or before January 31. Each student whose dues remain unpaid on the day fixed for their payment is required at once to cease attending lectures and using laboratories or making use of any other privileges as a student until his financial relations with the University have been arranged satisfactorily to the Bursar. Failure to comply with this rule is deemed cause for final separation of the student from the University.

Every student is required to file with the Bursar on his entrance to the School a bond of *fifty dollars*, executed by two sufficient bondsmen (one of whom must be a citizen of the United States), or to deposit fifty dollars in money, to cover the loss or injury of any property belonging to the University, or for which it is responsible. Blank forms of bonds may be obtained from the Bursar. No officer or student of the University is accepted as a bondsman. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School. *No degree can be conferred till all dues to the School are discharged.*

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Administrative Board, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission will date from the reception by the Dean of a written notice of the student's withdrawal from the School.

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Students, on joining the School, and at the beginning of each school year, must enter their names with the Dean of the School. They are expected to register on the first day of the academic year, *the Thursday following the last Wednesday in September.*

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DEAN'S OFFICE: NO. 283 DARTMOUTH STREET, BOSTON.

OFFICE HOURS OF THE DEAN: 9 A.M. TO 4 P.M.



## SUMMER SCHOOL.

JULY 6-18, 1908.

The work will be largely clinical in character and will be given at the Dental School building, North Grove Street. The school will be open to graduates, undergraduates, and practitioners of repute who may not hold degrees. A catalogue of the school will be issued in the early spring.

## SUMMER SCHOOL STUDENTS.

JULY, 1907.

|   |                      |
|---|----------------------|
| Carr, Oliver Franklin,  | Waverley.            |
| Clark, Ralph Hoyt, D.D.S. ( <i>Indiana Dental Coll.</i> )<br>1888,                          | Northampton.         |
| Cureton, Edward, D.D.S. ( <i>Dental Coll. Physicians<br/>and Surgeons</i> ),                | Stockton, Cal.       |
| Dooley, John Henry, D.M.D. ( <i>Tufts Dental Coll.</i> )<br>1903,                           | Roxbury.             |
| Gates, Charles Sumner, D.D.S. ( <i>Boston Dental Coll.</i> )<br>1882,                       | Amherst.             |
| Hand, William Luther, D.D.S. ( <i>Univ. of Maryland</i> )<br>1905,                          | Newbern, N.C.        |
| Kinney, Edwin Enoch, D.D.S. ( <i>Philadelphia Dental<br/>Coll.</i> ) 1897,                  | Lowell.              |
| La Bruère, Montbrun de,   | Lawrence.            |
| Lobo, José Paulo, M.D. ( <i>Portugal</i> ) 1900, D.M.D.<br>( <i>Harvard Univ.</i> ) 1907,   | Lisbon, Portugal.    |
| MacKay, George William, D.D.S. ( <i>Baltimore Medi-<br/>cal Coll., Dental Dept.</i> ) 1900, | Lynn.                |
| McKenna, Charles John,  | Boston.              |
| Newton, Rollin Augustus, D.D.S. ( <i>Univ. of Buffalo</i> )<br>1900,                        | Massena, N.Y.        |
| Nelson, Charles Chresten,   | Gloucester.          |
| Reed, James Herbert,  | Chelsea.             |
| Sawyer, Frederick Albert, D.D.S. ( <i>Tufts Dental<br/>Coll.</i> ) 1890,                    | Arlington.           |
| Sears, George,  | Fall River.          |
| Tracy, Nathan Kimball,  | Boston.              |
| Vallender, Charles Francis,   | Boston.              |
| Weinberg, Abraham, D.D.S. ( <i>Univ. of Maryland</i> )<br>1896,                             | Sumter, S.C.         |
| Wright, Alexander James, L.D.S. ( <i>Edinburgh</i> ) 1907,                                  | Perth, W. Australia. |

# TABULAR VIEW — 1907-08.

## FIRST YEAR — First Half-Year.

MEDICAL SCHOOL, LONGWOOD AVENUE.

|        | MONDAY.   | TUESDAY.   | WEDNESDAY.  | THURSDAY.   | FRIDAY. | SATURDAY.  |
|--------|---|--|---|---|---------|--|
| 9-10   | <i>October, January.</i><br>Anatomy. Lecture.<br><i>November, December.</i><br>Dissection and Demonstrations. | <i>Oct., Nov., Dec., Jan.</i><br>Anatomy. Lecture. | <i>Oct., Nov., Dec., Jan.</i><br>Anatomy. Lecture.  | <i>October, January.</i><br>Anatomy. Lecture.<br><i>November, December.</i><br>Dissection and Demonstrations. |         | <i>Oct., Nov., Dec., 9-11.</i><br>Histology.<br><i>January, 9-11.</i><br>Anatomy. Lecture. |
| 10-1   |   |  | <i>October.</i><br><i>Osteology.</i><br><i>November, December, January.</i><br>Dissection and Demonstrations. |   |         | <i>Oct., Nov., Dec., Jan. 11-1.</i><br>Anatomy. Lecture.                                   |
| 2-6    |   |  | <i>January.</i><br>Brain and Special Sense Organs.<br>Lectures, Demonstrations, and Recitations.              |   |         |  |
| 2-2.30 |   |  | <i>October, November, December.</i><br>Histology. Lecture.  |   |         |  |
| 2.30-6 |   |  | Histology. Laboratory.  |   |         | <i>* Oct., Nov., Dec., Jan.</i><br>General Chem. and Qual. Analysis<br>Dental School Bldg. |

\* Special course for conditioned students. Fee, \$20.

**FIRST YEAR. — Second Half-Year.**  
**PHYSIOLOGY. FEBRUARY.**  
**MEDICAL SCHOOL, LONGWOOD AVENUE.**

|       | MONDAY.                   | TUESDAY. | WEDNESDAY.                | THURSDAY. | FRIDAY. | SATURDAY.               |
|-------|---------------------------|----------|---------------------------|-----------|---------|-------------------------|
| 9-10  | Lecture or Demonstration. |          | Lecture or Demonstration. |           |         |                         |
| 10-12 | Laboratory Experiments.   | 10-10.15 | Written Test.             |           | 10-1    | Laboratory Experiments. |
| 12-1  | Written Test.             | 10.15-1  | Laboratory Experiments.   |           |         |                         |

*March, April, May.*

|          |                           |                           |                          |  |          |                         |
|----------|---------------------------|---------------------------|--------------------------|--|----------|-------------------------|
| 9-10     | Lecture or Demonstration. | Lecture or Demonstration. |                          |  |          |                         |
| 10-10.15 | Laboratory Experiments.   |                           | Written Test.            |  | 10-12.15 | Laboratory Experiments. |
| 10.15-12 | Laboratory Experiments..  | 10.15-12.15               | Laboratory Experiments.  |  |          |                         |
| 12-1     | Written Test.             | 12.15-1                   | Thesis or Demonstration. |  |          |                         |

DENTAL AND PHYSIOLOGICAL CHEMISTRY.

|           |                                    |  |  |  |  |  |
|-----------|------------------------------------|--|--|--|--|--|
| 2.15-3.15 | Lecture. Daily except Saturday.    |  |  |  |  |  |
| 3.15-6    | Laboratory. Daily except Saturday. |  |  |  |  |  |

**TABULAR VIEW**  
**1907-08 — September and October**

**SECOND YEAR — First Half-Year**

DENTAL SCHOOL, NORTH GROVE ST.

|               | MONDAY.  | TUESDAY.  | WEDNESDAY.   | THURSDAY.   | FRIDAY.   | SATURDAY  |
|---------------|--|---|--|---|---|---|
| 9             | Crown and<br>Bridge Work.<br>Clin. Lect.<br>or Dem.<br><sup>1</sup> Cooke.<br>Lect.-room A.  | Mat. Medica<br>and Thera., L.<br>Briggs.<br>Lect.-room B.   | Pros. Dent.<br>L.<br>Cross.<br>Lect.-rm. A.  | Dent.Path., L.<br>Brackett.<br>Lect.-room A.  | Pract. Oper.<br>Dentistry.<br>Section A.<br>Littig.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section B.<br>Cross.<br>Furbish.<br>Kazanjian. | Pros. Lab.<br>Cross.<br>Dort.<br><sup>3</sup> Pract.<br>Oper.<br>Dentistry.<br>Whitchurch |
| 10            | <sup>2</sup> Pract. Oper.<br>Dentistry.<br>Section A.<br>Whitehill.<br>Wyman.<br>Dem.<br><br><sup>2</sup> Prosthetic<br>Dentistry.<br>Section B.<br>Cross.<br>Baldwin. | Pract. Oper.<br>Dentistry.<br>Section B.<br>Pike.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section A.<br>Cross.<br>Eames.<br>Kazanjian. | Pract. Oper.<br>Dentistry.<br>Section A.<br>Stevens.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section B.<br>Cross.<br>Davis. | Op. Dent., L.<br>Dill.<br>Lect.-room A.<br><br><br><br><br><br>Pract. Oper.<br>Dentistry.<br>Section B.<br>Dill.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section A.<br>Cross.<br>Beckford. |   |   |
| 11<br>to<br>1 |  |   |  |   |   | Extracting<br>and<br>Anaesthesia<br>Stone.  |
| 2-3           | Bacteriology. Lectures.<br>Daily, except Saturdays.<br>Medical School Building.  |   |  |   |   |   |
| 3             |  |   |  |   |   |   |
| 5½            | Bacteriology. Laboratory.<br>Daily, except Saturdays.<br>Medical School Building.  |   |  |   |   |   |

<sup>1</sup> Commencing September 30, every alternate Monday.

<sup>2</sup> " " 30, at 10 o'clock, every alternate Monday at 9 o'clock.

<sup>3</sup> In sections.

# TABULAR VIEW

## 1907-08 — November

### SECOND YEAR — First Half-Year

|               | MONDAY.  | TUESDAY.  | WEDNESDAY.   | THURSDAY.  | FRIDAY.   | SATURDAY.   |
|---------------|--|---|--|--|---|---|
| 9             | Crown and<br>Bridge Work.<br>Clin. Lect.<br>or Dem.<br><sup>1</sup> Cooke.<br>Lect.-room B.  | Mat. Medica<br>and Thera., L.<br>Briggs.<br>Lect.-room B.   | Pros. Dent.<br>L.<br>Cross.<br>Lect.-rm. A.  | Dent.Path.,L.<br>Brackett.<br>Lect.-room A.  | Pract. Oper.<br>Dentistry.<br>Section B.<br>Littig.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section A.<br>Cross.<br>Furbish.<br>Kazanjian. | Pros. Lab.<br>Cross.<br>Dort.<br><sup>3</sup> Pract.<br>Oper.<br>Dentistry.<br>Whitchurch |
| 10            | <sup>2</sup> Pract. Oper.<br>Dentistry.<br>Section B.<br>Whitehill.<br>Wyman.<br>Dem.<br><br><sup>2</sup> Prosthetic<br>Dentistry.<br>Section A.<br>Cross.<br>Baldwin. | Pract. Oper.<br>Dentistry.<br>Section A.<br>Pike.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section B.<br>Cross.<br>Eames.<br>Kazanjian. | Pract. Oper.<br>Dentistry.<br>Section B.<br>Stevens.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section A.<br>Cross.<br>Davis. | Op. Dent.,L.<br>Dill.<br>Lect.-room A.<br><br><br><br><br><br>Pract. Oper.<br>Dentistry.<br>Section A.<br>Dill.<br>Wyman.<br>Dem.<br><br>Prosthetic<br>Dentistry.<br>Section B.<br>Cross.<br>Beckford. |   |   |
| 11<br>to<br>1 |  |   |  |  |   | Extracting<br>and<br>Anaesthesia<br>Stone.  |
| 2-3           |  | Bacteriology. Lectures.<br>Daily, except Saturdays.<br>Harvard Medical School.  |  |  |   |   |
| 3-4           |  |   |  |  |   |   |
| 4-5           |  | Bacteriology. Laboratory.<br>Daily, except Saturdays.<br>Harvard Medical School.  |  |  |   |   |

<sup>1</sup> Commencing September 30, every alternate Monday.

<sup>2</sup> " " 30, at 10 o'clock, every alternate Monday at 9 o'clock.

<sup>3</sup> In sections.



**TABULAR VIEW**  
**1907-08 — December and January**

**SECOND YEAR — First Half-Year**

DENTAL SCHOOL, NORTH GROVE ST.

|    | MONDAY.   | TUESDAY.   | WEDNESDAY.                                    | THURSDAY.                                       | FRIDAY.  | SATURDAY.   |
|----|---|--|---|---|--|---|
| 9  | Crown and<br>Bridge Work.<br>Clin. Lect.<br>or Dem.<br><sup>1</sup> Cooke.<br>Lect.-room B. | Mat. Medica<br>and Thera., L.<br>Briggs.<br>Lect.-room B.  | Pros. Dent.<br>L.<br>Cross.<br>Lect.-rm. A.   | Dent.Path., L.<br>Brackett.<br>Lect.-room A.    | Pract. Oper.<br>Dentistry.<br>Littig.                        | Pros. Lab.<br>Cross.<br>Dort.<br><sup>3</sup> Pract.<br>Oper.<br>Dentistry.<br>Whitchurch |
| 10 | <sup>2</sup> Pract. Oper.<br>Dentistry.<br>Whitehill.                                       | Pract. Oper.<br>Dentistry.<br>Pike.                        | Pract. Oper.<br>Dentistry.<br>Stevens.        | Op. Dent., L.<br>Dill.<br>Lect.-room A.         |  |   |
| 11 |   |  |   | Pract. Oper.<br>Dentistry.<br>Dill.             |  | Extracting<br>and<br>Anaesthesia<br>Stone.  |
| to |   |  |   |   |  |   |
| 1  | Wyman.<br>Dem.  | Wyman.<br>Dem.   | Wyman.<br>Dem.                                | Wyman.<br>Dem.                                  | Wyman.<br>Dem.   |   |
| 2  | Prosthetic<br>Dentistry.<br>Cross.<br>Baldwin.  | Prosthetic<br>Dentistry.<br>Cross.<br>Eames.<br>Kazanjian. | Prosthetic<br>Dentistry.<br>Cross.<br>Davis.  | Prosthetic<br>Dentistry.<br>Cross.<br>Beckford. | Prosthetic<br>Dentistry.<br>Cross.<br>Furbish.<br>Kazanjian. |   |
|    | Extracting<br>and<br>Anaesthesia.<br>Midgley.   | Extracting<br>and<br>Anaesthesia.<br>Squarebrigs.          | Extracting<br>and<br>Anaesthesia.<br>O'Brien. | Extracting<br>and<br>Anaesthesia.<br>Tishler.   | Extracting<br>and<br>Anaesthesia.<br>Farrington.             |   |
| 4  |   |  |   |   |  |   |
|    |   |  |   |   |  |   |

<sup>1</sup> Commencing September 30, every alternate Monday.

<sup>2</sup> " " 30, at 10 o'clock, every alternate Monday at 9 o'clock.

<sup>3</sup> In sections.

# TABULAR VIEW 1907-08

## SECOND YEAR — Second Half-Year

DENTAL SCHOOL, NORTH GROVE ST.

|    | MONDAY.   | TUESDAY.   | WEDNESDAY.  | THURSDAY.   | FRIDAY.   | SATURDAY.   |
|----|---|--|---|---|---|---|
| 9  | Crown and<br>Bridge Work.<br>Clin. Lect.<br>or Dem.<br><sup>1</sup> Cooke.<br>Lect.-room B. | Mat. Medica<br>and Thera., L.<br>Briggs.<br>Lect.-room B.  | Prosthetic<br>Dentistry, L.<br><sup>3</sup> Cross.<br>Lect.-room A. | Dent.Path., L.<br>Brackett.<br>Lect.-room A.              | Pract. Oper.<br>Dentistry.<br>Littig.<br><br>Porcelain<br>Inlay Work,<br>com. Apr. 3.<br>Moffatt. | Prosthetic<br>Dentistry<br>or Or-<br>thodontia,<br>L.<br>Baker,<br>Lect.-rm. A.                       |
| 10 | <sup>2</sup> Pract. Oper.<br>Dentistry.<br>Whitehill.                                       | Pract. Oper.<br>Dentistry.<br>Pike.                        | Pract. Oper.<br>Dentistry.<br>Stevens.                              | Op. Dent., L.<br>Dill.<br>Lect.-room A.                   |   | Pros. Lab.<br>Cross.<br>Dort.<br>10 to 1.<br><sup>4</sup> Pract.<br>Oper.<br>Dentistry.<br>Whitchurch |
| 11 | Wyman.<br>Dem.  | Wyman.<br>Dem.   | Wyman.<br>Dem.  | Pract. Oper.<br>Dentistry.<br>Dill.<br><br>Wyman.<br>Dem. | Wyman.<br>Dem.  | Extracting<br>and<br>Anaesthesia<br>Stone.  |
| 2  | Prosthetic<br>Dentistry.<br>Cross.<br>Baldwin.  | Prosthetic<br>Dentistry.<br>Cross.<br>Eames.<br>Kazanjian. | Prosthetic<br>Dentistry.<br>Cross.<br>Davis.                        | Prosthetic<br>Dentistry.<br>Cross.<br>Beckford.           | Prosthetic<br>Dentistry.<br>Cross.<br>Furbish,<br>Kazanjian.                                      |   |
|    | Extracting<br>and<br>Anaesthesia.<br>Midgley.   | Extracting<br>and<br>Anaesthesia.<br>Squarebrigs.          | Extracting<br>and<br>Anaesthesia.<br>O'Brien.                       | Extracting<br>and<br>Anaesthesia.<br>Tishler.             | Extracting<br>and<br>Anaesthesia.<br>Farrington.  |   |
| 4  |   |  |   |   |   |   |
| 4½ |   |  |   |   |   |   |

<sup>1</sup> Commencing September 30, every alternate Monday.

<sup>2</sup> " " " 30, at 10 o'clock, every alternate Monday at 9 o'clock.

<sup>3</sup> Anatomical Articulation and the Mechanical treatment of Fractured Jaws, Cleft Palates, and other oral deformities.

<sup>4</sup> In sections.

## TABULAR VIEW—1907-08

## THIRD YEAR

DENTAL SCHOOL, NORTH GROVE ST.

|         | MONDAY.   | TUESDAY.   | WEDNESDAY.  | THURSDAY.   | FRIDAY.  | SATURDAY.  |
|---------|---|--|---|---|--|--|
| 9       | Crown and Bridge Work. Clin. Lect. or Dem. <sup>1</sup> Cooke. Lect.-room B. Prosthetic Conference. Cross. Sept. 30 Oct. 14-28 <sup>5</sup> Chemistry. H. C. Smith. <sup>6</sup> conferences, com. Nov. 11. <sup>5</sup> Dent. Path. L. Hopkins. com. Mar. 3. | Surgery, L. Monks. Lect.-rm. A. <sup>3</sup> Clin. Surg. Blake. <sup>4</sup> Pros. Dent. Clin. Con. J. D. Dickinson, com. Dec. 10. | Op. Dent. L. Potter. Lect.-room B.  | Porcelain Work. Clinie. Lect.-room B. Hadley. Section A, 9 to 11. Section B, 11 to 1. | Oral Surgery, or Roentgenology, L. Shuman. Lect.-room B. Syphilis, L. C. Morton Smith. Lect.-room B, com. Nov. 29. Neurology. E. W. Taylor. 4 lectures, com. Feb. 7. Lect.-room B. | Orthodontia or Prosthetic Dentistry, L. E. H. Smith. Lect.-rm. B.  |
| 10      | <sup>3</sup> Crown and Bridge Work. Clinie. Cooke. Eldred. Estabrooks. Hovestadt  | Prosthetic <sup>6</sup> Dentistry. Lab. Chute. Weston.   | Prosthetic <sup>6</sup> Dentistry. Lab. Haley. Kazanjian. Langley.              | Prosthetic <sup>6</sup> Dentistry. Lab. Hayden.                                       | Oral Surgery. Clinie. Shuman. Miner. Prosthetic <sup>6</sup> Dentistry. Clark. L. A. Rogers.   | Orthodontia Clinie. E. H. Smith. Baker. Howe. Prosthetic Dentistry. Cross. Miner. 10 to 1. Extracting and Anaesthesia Stone. |
| 11 to 1 | <sup>2</sup> Prosthetic Dentistry. Lab. Cross.  | Cross.   | Cross.  | Cross.  | Cross.   |  |
| 2       | Praet. Op. Dentistry. Blaisdell. Wyman, Dem. Extracting and Anaesthesia. Midgley.   | Praet. Op. Dentistry. Paul. Wyman, Dem. <sup>7</sup> Samaritan Hospital. M. F. Rogers. Extracting and Anaesthesia. Squarebrigs.    | Praet. Op. Dentistry. Stanley. Wyman, Dem. Extracting and Anaesthesia. O'Brien. | Praet. Op. Dentistry. Elliott. Wyman, Dem. Extracting and Anaesthesia. Tishler.       | Praet. Op. Dentistry. Furfey. Wyman, Dem. Inlay Work. Moffatt. com. Jan. 31. Extracting and Anaesthesia. Farrington.   |  |
| 4       |   | Orthodontia. Howe.   |   | Orthodontia. Howe.  |  |  |

<sup>1</sup> Commencing October 7, every alternate Monday.<sup>2</sup> " September 30, at 9 o'clock, every alternate Monday at 10 o'clock.<sup>3</sup> Boston City Hospital, to be announced.<sup>4</sup> In sections. Private Laboratory, 164 Newbury St.<sup>5</sup> Every alternate Monday.<sup>6</sup> Demonstrations to the class in sections.<sup>7</sup> In sections.

LIST OF GRADUATES  
OF  
THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

---

1869.

|   |           |
|---|-----------|
| Thomas Fillebrown, M.D. ( <i>Medical School of Maine</i> ), | Boston.   |
| Robert Tanner Freeman,                                      | *1873.    |
| Thomas Haley,   | *1892.    |
| Edward Page, M.D. ( <i>Harvard</i> ),                       | Boston.   |
| Samuel Julius Shaw,   | Marlboro. |
| Joseph Jenkins Vincent,                                     | Amherst.  |

1870.

|  |                       |
|--|-----------------------|
| John Thomas Codman,  | Boston.               |
| William Francis Davis,   | New York, N. Y.       |
| George Franklin Grant,   | Boston.               |
| Samuel Franklin Ham,   | Los Angeles, Cal.     |
| Daniel Grout Harrington,                                       | *1899.                |
| Thomas Wilson Hogue,   | Bournemouth, England. |
| Timothy Otis Loveland,   | Boston.               |
| William Henry Noyes,   | *1895.                |
| George Luther Parmele, M.D. ( <i>L. I. College Hospital</i> ), | Hartford, Conn.       |
| William Henry Thornton,  | *1897.                |
| Frank Edward Ward,   | *1894.                |
| Charles Wilson,  | Boston.               |

1871.

|                         |                       |
|-------------------------|-----------------------|
| Charles Monroe Bailey,  | Minneapolis, Minn.    |
| George Hayward Baker,   | Woonsocket, R. I.     |
| Charles Edwin Hussey,   | Biddeford, Me.        |
| Albert Benton Jewell,   | Newton.               |
| Philip Benjamin Laskey, | Marblehead.           |
| William Pitt Morgan,    | Saginaw, W. S., Mich. |

\* Deceased.



## 1872.

|  |                     |
|--|---------------------|
| George Henry Ames,                                   | Providence, R. I.   |
| Sidney Chapin Bancroft,                              | Leavenworth, Kan.   |
| Charles Samuel Bartlett,                             | Boston.             |
| James Dias Bell,                                     | Brighton, England.  |
| Edwin Perley Bradbury,                               | Santa Barbara, Cal. |
| James Adkins Clark, M.D. ( <i>Dartmouth</i> ),       | *1875.              |
| James William Curtis,                                | Brunswick, Me.      |
| George William Geist,                                | *1900.              |
| John Warner Keyes,                                   | Washington, D. C.   |
| George Edward Langdon Noyes,                         | Newburyport.        |
| Frederic Miller Robinson,                            | *1903.              |
| Samuel Saiza Silva,                                  | Southbridge.        |
| Benjamin Henry Torrens,                              | Fredericton, N. B.  |
| Winslow Lewis Tucker, A.B., A.M. ( <i>Harvard</i> ), | Boston.             |
| Cecil Porter Wilson,                                 | Boston.             |

## 1873.

|   |                          |
|---|--------------------------|
| Charles Albert Brackett,                          | Newport, R. I.           |
| Edward Augustus Dimmick,                          | *1905.                   |
| George Henry Knowles,                             | Central Falls, R. I.     |
| William Herbert Rollins, M.D. ( <i>Harvard</i> ), | Boston.                  |
| Charles Herman Wolff,                             | Worms am Rhein, Germany. |

## 1874.

|                            |                  |
|----------------------------|------------------|
| Willis Porter Battles,     | *1899.           |
| Edward Dwight Carr,        | Kansas City, Mo. |
| Edward Eastman Frost,      | Worcester.       |
| George Leonard Mason,      | *1895.           |
| Horatio Cook Meriam,       | Salem.           |
| Frederic Augustus Merrill, | Boston.          |
| Eugene Hanes Smith,        | Boston.          |
| Franklin Baker Stewart,    | *1877.           |

## 1875.

|                         |                   |
|-------------------------|-------------------|
| Forrest Greenwood Eddy, | Providence, R. I. |
| John Willard Hazelton,  | Peabody.          |
| Joseph Traverse Morong, | *1880.            |
| Wilbur Bates Parker,    | Boston.           |
| Eben Francis Whitman,   | *1902.            |

## 1876.

|   |                     |
|---|---------------------|
| Thomas Bradley,   | New York, N. Y.     |
| Oscar Berlin Brann,                                       | Washington, D. C.   |
| George Peters Caldwell, M.D. ( <i>Harvard</i> ).          |                     |
| George Cunningham, B.L., B.Sc. ( <i>Univ. of Paris</i> ), |                     |
| B.A., M.A. CANTAB., L.D.S. ( <i>Eng.</i> ),               | Cambridge, England. |
| Edgar Morton Jewett,                                      | Portsmouth, N. H.   |
| George Otis Lawrence,                                     | *1899.              |
| Jesse Robbins,  | Salem.              |
| Charles Claude Rogers, L.D.S., M.R.C.S. ( <i>Eng.</i> ),  | London, England.    |
| Ezra Fletcher Taft, A.B. ( <i>Amherst</i> ),              | Cambridge.          |
| Julius George Wilhelm Werner,                             | Boston.             |

## 1877.

|   |                  |
|---|------------------|
| Allston Gray Bouvé,   | Boston.          |
| Henry Francis Dunkel,   | Gunnison, Colo.  |
| Edward Bigelow Hitchcock, M.D. ( <i>Dartmouth</i> ),            | *1900.           |
| Washburn Edward Page,   | Boston.          |
| Frank Perrin,   | Boston.          |
| Lucius Tracy Sheffield,   | *1901.           |
| Richard Theodore Stack, M.B. ( <i>Dublin Univ.</i> ), M.D.,     |                  |
| L.R.C.S. ( <i>Edin.</i> ), CH.M. ( <i>Dublin Univ.</i> ), L.M., |                  |
| F.R.C.S., L.D.S., R.C.S. ( <i>Eng.</i> ),                       | Dublin, Ireland. |
| Frank Herbert Williams,   | Boston.          |

## 1878.

|  |                |
|--|----------------|
| Edward Cornelius Briggs, M.D. ( <i>Harvard</i> ),            | Boston.        |
| Joseph Mason Bright,   | Bangor, Me.    |
| Harry Fairfield Hamilton, B.S. ( <i>Maine State Coll.</i> ), | Boston.        |
| Manning Kennard Rand,  | Boston.        |
| Daniel Frank Whitten,  | *1891.         |
| Herbert Chauncey Woodward,                                   | Paris, France. |

## 1879.

|                             |         |
|-----------------------------|---------|
| Frederic Eugene Banfield,   | Boston. |
| Walter Bryant Currier,      | Lynn.   |
| Thomas Clarence Gillingham. |         |
| Edward Samuel Niles,        | Boston. |
| John William Smith,         | *1889.  |

## 1880.

|  |                   |
|--|-------------------|
| Frederick Eugene Ayer,                       | Boston.           |
| Albert James Colgan,                         | Los Angeles, Cal. |
| Arthur Ernestine Lewis,                      | Richford, Vt.     |
| John Scott Mason,                            | Saco, Me.         |
| Virgil Clarence Pond, B.F. ( <i>Brown</i> ), | Boston.           |

1881.

|                        |                    |
|------------------------|--------------------|
| William Parker Cooke,  | Boston.            |
| George Alfred Dennett, | Boston.            |
| James Alfred Reilly,   | Boston.            |
| Edmond Rosenthal,      | Brussels, Belgium. |
| Otis Franklin Smith,   | *1903.             |

1882.

|                      |                  |
|----------------------|------------------|
| Dwight Moses Clapp,  | *1906.           |
| George Eubank,       | Birmingham, Ala. |
| Edward Earl Hopkins, | Boston.          |

1883.

|                             |                             |
|-----------------------------|-----------------------------|
| Elliot Bowdoin Bacheller,   | Farmington, Me.             |
| Edwin Carter Blaisdell,     | Portsmouth, N. H.           |
| Frederic William Hill,      | Oxford, England.            |
| Edward Albert Lowe,         | *1899.                      |
| Samuel Sterrett Macfarlane, | Frankfurt am Main, Germany. |
| Myron William Smith,        | *1886.                      |
| Joseph Ellsworth Waitt,     | Boston.                     |
| George Arthur Williams,     | Liverpool, England.         |

1884.

|   |                           |
|---|---------------------------|
| Charles Lincoln Abbott,                               | Kansas City, Mo.          |
| Frederic William Bevington,                           | Lawrence.                 |
| Henry Parsons Cooke,                                  | Worcester.                |
| Charles Percy Curtis,                                 | Glasgow, W., Scotland.    |
| Arthur Crowell Gerry,                                 | Lowell.                   |
| George Henry Gerry,                                   | Brooklyn, N. Y.           |
| Charles Franklin MacDonald,                           | Boston.                   |
| Ned Albert Stanley,                                   | New Bedford.              |
| Jere Edmund Stanton, M.D. ( <i>Bellevue</i> ),        | Boston.                   |
| Alfred Horace Tester, L.D.S., R.C.S. ( <i>Eng.</i> ), | Tunbridge Wells, England. |

1885.

|   |                    |
|---|--------------------|
| Charles Henry Abbot,                                  | Berlin, Germany.   |
| Edward Merrill Currier, M.D. ( <i>Boston Univ.</i> ), |                    |
| M.D. ( <i>Heidelberg</i> ),                           | Boston.            |
| Charles Eugene Estabrook,                             | Everett.           |
| Thomas James Giblin,                                  | Dorchester.        |
| Henry Webster Gillett,                                | New York, N. Y.    |
| Walter Harrison, L.D.S., R.C.S. ( <i>Eng.</i> ),      | Brighton, England. |
| William Henry Potter, A.B. ( <i>Harvard</i> ),        | Boston.            |
| James Shepherd,                                       | Boston.            |

## 1886.

|   |                         |
|---|-------------------------|
| Lyman Fisher Bigelow,                           | Boston.                 |
| Waldo Elias Boardman,                           | Boston.                 |
| William Thomas Borton,                          | St. Petersburg, Russia. |
| Frederick Bradley,                              | *1907.                  |
| Henry Michael Clifford,                         | Charlestown.            |
| Isidor Fürst,                                   | Hamburg, Germany.       |
| Leonard Nutter Howe,                            | Boston.                 |
| Frederic Milton Mayo,                           | Boston.                 |
| Wilhelm Leopold Olander,                        | *1896.                  |
| Charles Hutchins Taft, A.B. ( <i>Harvard</i> ), | Boston.                 |
| Henry Lauriston Upham,                          | Boston.                 |

## 1887.

|   |                           |
|---|---------------------------|
| Peter Crank, L.D.S., R.C.S. ( <i>Eng.</i> ),              | Adelaide, So. Australia.  |
| Carroll Ketcham Huntley,                                  | Providence, R. I.         |
| Leslie Maxwell, L.D.S., R.C.S.I.,                         | Tunbridge Wells, England. |
| Edwin Leslie Shattuck,                                    | London, England.          |
| Frank Ellsworth Sprague,                                  | Nashua, N. H.             |
| Henry James Stark,  | *1889.                    |
| Edgar Fremont Stevens,                                    | *1902.                    |
| Arthur Henry Stoddard,                                    | Boston.                   |
| Charles Henry Veo,  | Boston.                   |
| John Daniel Wilson,                                       | Boston.                   |
| Harry Eugene Windsor,                                     | Providence, R. I.         |
| Thomas Weston Wood, A.B., A.M. ( <i>Brown</i> ),          | Boston.                   |
| Harvey Warner Woodberry.                                  |                           |
| Charles Frederick Wright, L.D.S., R.C.S. ( <i>Eng.</i> ), | London, England.          |

## 1888.

|   |                             |
|---|-----------------------------|
| George Pierce Geist,  | Frankfurt am Main, Germany. |
| Frederick Payne Graves,                                     | Saco, Me.                   |
| Ellis Proctor Holmes,                                       | Boston.                     |
| Henry Allen Kelley,   | Portland, Me.               |
| Thomas George Read, L.D.S., R.C.S. ( <i>Eng.</i> ),         | London, England.            |
| Frederick Arnold Stevenson, L.D.S. ( <i>Prov. Quebec</i> ), |                             |
| D.D.S. ( <i>Bishops College, Prov. of Quebec</i> ),         | Montreal, Canada.           |
| Charles Bryant Titcomb,                                     | Salt Lake City, Utah.       |



## 1889.

|   |                             |
|---|-----------------------------|
| Fred. Anthony Arnold,                               | Newport, R. I.              |
| Henry Jeffkins Borton,                              | St. Petersburg, Russia.     |
| Charles Poor Briggs, A.B., M.D. ( <i>Harvard</i> ), | Boston.                     |
| William Frederick Gay, M.D. ( <i>Tufts</i> ),       | Boston.                     |
| Paul Grünewald,                                     | Frankfurt am Main, Germany. |
| Frank Irving Hammond,                               | Providence, R. I.           |
| Frederick Sylvanus Hopkins,                         | Boston.                     |
| Daniel Albion Jones, B.A., M.D. ( <i>Yale</i> ),    | New Haven, Conn.            |
| William Russell Jones,                              | Mexico City, Mexico.        |
| William Lombardino,                                 | Berlin, Germany.            |
| Patrick William Moriarty,                           | Boston.                     |
| William Curren O'Leary,                             | Brookline.                  |
| Arthur Henry Osgood, A.B. ( <i>Harvard</i> ),       | Boston.                     |
| Caleb Heath Shepard,                                | *1892.                      |
| Frederic Ervin Twitchell,                           | Willmar, Minn.              |
| Eugene Jakob Wetzel,                                | Mülhausen, Alsace, Germany. |
| James Robert White,                                 | No. Adams.                  |

## 1890.

|   |                     |
|---|---------------------|
| Sidney Roland Bartlett, S.B. ( <i>Mass. Inst. of Tech.</i> ), | Independence, Kan.  |
| Harry Oliver Bixby,   | North Cambridge.    |
| Benjamin Howard Codman,                                       | Boston.             |
| Edwin Hartley Dixon,  | New York, N. Y.     |
| Arthur Warren Eldred,   | Worcester.          |
| Charles Manning Keep, M.D. ( <i>Harvard</i> ),                | Boston.             |
| Charles Elmer Luce,   | Stuttgart, Germany. |
| Kotai Masuda,   | Yokohama, Japan.    |
| Arthur Judson Oldham,   | Boston.             |
| Hermann Paal,   | Dresden, Germany.   |
| Charles Ernest Perkins,                                       | Brockton.           |
| Oscar Pulvermacher,   | Berlin, Germany.    |
| Edward Rolfe,   | Boston.             |
| Elbridge Abbott Shorey,                                       | Dover, N. H.        |
| Frank Turner Taylor,  | Boston.             |

## 1891.

|  |                     |
|--|---------------------|
| Paul Henri Jules Boitel,                                 | Vevey, Switzerland. |
| Georges Antoine Brouillet,                               | Boston.             |
| Alexander Humboldt Fisher,                               | Roxbury.            |
| Adin Albert Goldsmith, D.D.S. ( <i>Univ. of Penn.</i> ), | London, England.    |
| Amos Irving Hadley,                                      | Boston.             |

|  |                        |
|--|------------------------|
| George Meads Holden,   | Hackettstown, N. J.    |
| Shimpei Nobutsune Isawa,                                     | Tokyo, Japan.          |
| George Martin, D.D.S. ( <i>Univ. of California</i> ),        | Berlin, Germany.       |
| Clarence Moore Noble,  | *1897.                 |
| Hugh Owen,   | Auckland, New Zealand. |
| Joseph Totten Paul,  | Boston.                |
| George Barnum Perry,   | Chicago, Ill.          |
| William Fuller Sharp, D.D.S. ( <i>Univ. of California</i> ), | San Francisco, Cal.    |
| Fred Homer Woodcock,   | *1895.                 |

## 1892.

|   |                      |
|---|----------------------|
| Edward Stanley Bryant,                                    | Brockton.            |
| Allen Stanley Burnham,                                    | Gloucester.          |
| Charles Edward Bugbee Chase,                              | Boston.              |
| Willard Eben Curtice,                                     | Roxbury.             |
| Kirk Addison Davenport, D.D.S. ( <i>Univ. of Penn.</i> ), | London, England.     |
| Ernest Frederick Gabell,                                  | London, England.     |
| Theodore Hallett,   | *1898.               |
| Herbert Frederic Hill, L.D.S., R.C.S.I.                   | London, England.     |
| Albert Edward Hulme,                                      | Andover.             |
| Richard Carl Moritz,                                      | London, England.     |
| Harry Snow Parsons, M.D. ( <i>Bowdoin</i> ),              | Boston.              |
| Henry Robinson Peach,                                     | Salem.               |
| Henry Edward Rose, L.D.S., R.C.S.I.                       | Birmingham, England. |
| Nathan Prindle Wyllie,                                    | *1900.               |

## 1893.

|  |                              |
|--|------------------------------|
| Charles Oscar Cummings, A.B. ( <i>Dartmouth</i> ),           | *1894.                       |
| Frank Roberts Dickerman,                                     | Taunton.                     |
| George William Field, Jr., L.D.S., R.C.S.I.                  | London, England.             |
| George Rufus Gray, D.D.S. ( <i>Univ. of Penn.</i> ),         | Worcester.                   |
| Joseph Geiger Grove, Jr.                                     | Pine Bluff, Ark.             |
| Max Hanau,   | *1904.                       |
| Edward Aimé Arthur Lamere,                                   | Fitchburg.                   |
| Richard Pearson, M.R.C.S. ( <i>Eng.</i> ), L.R.C.P., R.C.S.  |                              |
| ( <i>London</i> ), M.B., B.S., M.D. ( <i>Durham Univ.</i> ), | London, England.             |
| Edward Melville Quinby, M.R.C.S., L.R.C.P. ( <i>Eng.</i> ),  | Liverpool, England.          |
| Charles Hudson Quirk, M.D. ( <i>Harvard</i> ),               | Buenos Ayres, Argentine Rep. |
| Frederick King Richardson,                                   | New Rochelle, N. Y.          |
| William Bertram Sansom, L.D.S., R.C.S. ( <i>Eng.</i> ),      | London, England.             |
| John Joseph Smith,   | *1894.                       |
| Frank Merrett Wilkinson,                                     | Perth, West Australia.       |

## 1894.

|  |                        |
|--|------------------------|
| Eugene Everett Arnold,                                 | *1901.                 |
| Joseph Bergin Belliveau,                               | Boston.                |
| Joseph Boylston,                                       | Portsmouth, N. H.      |
| Thomas Bernard Hayden,                                 | Boston.                |
| Jay Reuben Holton,                                     | St. Louis, Mo.         |
| Gustave Joseph Inderbitzen,                            | Berne, Switzerland.    |
| Arthur Jackson,  | Boston.                |
| Frederick William Percival,                            | Peterborough, England. |
| Thomas Edward Quinn,                                   | Boston.                |
| Fred Gibson Robbins, M.D. ( <i>Harvard</i> ),          | Boston.                |
| Arthur Galusha Smith,                                  | Peoria, Ill.           |
| George Lund Taft, PH.B., A.B. ( <i>Boston Univ.</i> ), | Cambridge.             |
| Louis Napoleon Veo,                                    | Boston.                |
| William Joseph Walton, M.D. ( <i>Harvard</i> ),        | Dorchester.            |

## 1895.

|  |                    |
|--|--------------------|
| Ernst Sixten Arvedson, L.D.S. ( <i>Sweden</i> ),   | Stockholm, Sweden. |
| Edward Doane Barrows,  | Berlin, Germany.   |
| Robert Lander Bartlett, M.D. ( <i>Tufts</i> ), M.D. ( <i>Univ.</i><br><i>and Bellevue Hospital Med. Coll.</i> ), | Lynn.              |
| Clarence Augustus Carr, A.B., A.M. ( <i>Brown</i> ),   | Newport, R. I.     |
| Walter Strout Coleman,   | Portland, Me.      |
| Dwight Ward Dickinson, B.S. ( <i>Boston Univ.</i> ),   | Watertown.         |
| Percy Edgelow, M.R.C.S. ( <i>Eng.</i> ), L.R.C.P. ( <i>Ed.</i> ),  | London, England.   |
| James Austin Furfey,   | Boston.            |
| Marquis D Littig, D.D.S. ( <i>Univ. of Penn.</i> ), M.D. ( <i>Tufts</i> ),                                       | Boston.            |
| Frederick Everett Meader,  | Boston.            |
| Richard Dyer Milliken,   | Saco, Me.          |
| Robert Tucker Moffatt,   | Boston.            |
| Henry Clinton O'Brien,   | Brookline.         |
| Patrick Henry O'Connor.  |                    |
| Francis Wheeler Rice,  | *1897.             |
| Leopold Adolph Edward Scheuermann,   | Berlin, Germany.   |
| Arthur Hale Woodcock,  | Boston.            |

## 1896.

|   |                   |
|---|-------------------|
| Francis Homes Barnard, Jr.  | Duluth, Minn.     |
| Edgar Casper Bienemann, L.D.S. ( <i>Coll. of Physicians</i><br><i>and Surgeons, Scotland</i> ), | Croydon, England. |
| Asher Harriman St. Clair Chase,   | Everett.          |
| Ernest Howard Chute,  | Boston.           |
| Charles Winfield Crane,   | Lynn.             |

|                                      |                   |
|--------------------------------------|-------------------|
| Harold DeWitt Cross,                 | Nashua, N. H.     |
| John Walter Emery,                   | Boston.           |
| Edwin Linwood Farrington,            | Lowell.           |
| Adelbert Fernald,                    | Boston.           |
| Guy Webster Gilbert,                 | Lawrence.         |
| Harry Sargent Gilman,                | Boston.           |
| Harry West Haley,                    | Boston.           |
| Harvey Winchester Hardy,             | Boston.           |
| Harry Morrill Haynes,                | Boston.           |
| Robert John McMeekin.                |                   |
| James Francis Martin,                | Springfield.      |
| Edward Wakefield Matthews,           | Yarmouthport.     |
| Charles Everett Monroe,              | Wollaston.        |
| Thomas Kennedy Ross,                 | Fitchburg.        |
| Johann Philipp Alexander Stadelmann, | Dresden, Germany. |
| Walter Irving Sweet,                 | Providence, R. I. |
| Charles Frederick York, Jr.          | Chelsea.          |

## 1897.

|  |  |
|--|--|
| Frederick Wilde Allen,   | Boston.                                  |
| Frank Pliny Barnard,   | Worcester.                               |
| Roy Keney Belden,  | San Francisco, Cal.                      |
| Harry Ernest Belyea,   | Saskatoon, North West Territory, Canada. |
| Charles William Berry, B.S. ( <i>Dartmouth</i> ),              | W. Somerville.                           |
| Ralph Vincent Blake, PH.G. ( <i>Mass. Coll. of Pharmacy</i> ), | New York, N.Y.                           |
| Harold Edgeworth Davis, M.D. ( <i>Cooper Med. Coll.</i> ),     | Apia, Samoa.                             |
| Robert Irving Davis,   | Chelsea.                                 |
| Walter Sheldon Davis,  | Braintree.                               |
| John Dana Dickinson,   | Boston.                                  |
| Harold Watson Estey,   | Boston.                                  |
| Walter Joseph Faunce,  | Roxbury.                                 |
| George Lincoln Forrest,  | Wakefield.                               |
| Leo Green, A.B. ( <i>Coll. of City of New York</i> ),          | New York, N. Y.                          |
| George True Greenwood,   | Fitchburg.                               |
| Francis Herbert Harding,                                       | West Point, Cal.                         |
| Edward Everett Henry,  | Kingston, N.Y.                           |
| Arland Martin Kenney,  | Roxbury.                                 |
| Charles Ansel Lakin,   | Worcester.                               |
| William Cable Lunan,   | Southbridge.                             |
| Raimond Edgar McDonnough.                                      |  |
| Thomas Richard McMahon,  | Charlestown.                             |
| Joseph Thomas Mooney,  | Boston.                                  |
| Charles Erwin Parkhurst, A.B. ( <i>Boston Univ.</i> ),         | Somerville.                              |



|   |                              |
|---|------------------------------|
| Henry Carlton Spencer,                                    | Newton.                      |
| Joseph Herman Stromier, D.D.S. ( <i>Univ. of Mich.</i> ), |                              |
| L.D.S. ( <i>Coll. of Physicians and Surgeons, Glas-</i>   |                              |
| <i>gow, Scot.</i> ),                                      | Glasgow, Scotland.           |
| David Pickard Thomas, L.D.S. ( <i>Scotland</i> ),         | George, Cape Colony, Africa. |
| Clarence Bartlett Vaughan,                                | Boston.                      |
| Frank Hosea Veo,  | Boston.                      |
| George Alfred Warren,                                     | Newton.                      |
| Walter Harris White,                                      | Boston.                      |
| Herbert Clarence Woodman,                                 | Boston.                      |

## 1898.

|  |                          |
|--|--------------------------|
| Harry Roscoe Allen,  | Hartford, Conn.          |
| Ernest Harold Christopher Bailey,                            | E. Melbourne, Australia. |
| Francis William Bailey,                                      | Waterford, Ireland.      |
| Lawrence Wills Baker,  | Boston.                  |
| Charles Boardman Burnham,                                    | Beverly.                 |
| John Alexander Counter,                                      | Toledo, O.               |
| Frank Crowther,  | Perth Amboy, N. J.       |
| Joseph Daley,  | *1907.                   |
| Eliot Taylor Dickinson, B.Sc. ( <i>Boston Univ.</i> ),       | Northampton.             |
| Giles Dowling,   | Dedham.                  |
| Paul Hill Duckworth,   | Boston.                  |
| Stewart Cheselton Fisher,                                    | St. Jo, Tex.             |
| Harry Linwood Grant, A.B. ( <i>Brown</i> ),                  | Providence, R. I.        |
| Timothy Hanrahan,  | Boston.                  |
| George Herbert Harding, L.D.S., R.C.S. ( <i>Eng.</i> ),      | Llandudno, No. Wales.    |
| Ernest Jewett Hart,  | Boston.                  |
| J. Churchill Hindes,   | Winchester.              |
| Horace Leonard Howe,   | Boston.                  |
| Evans Almon Leonard,   | Grover, Orleans Co., Vt. |
| William Saul Louisson, D.D.S. ( <i>Univ. of Penn.</i> ),     | San Francisco, Cal.      |
| Frank Martin Lynde, A.B. ( <i>Tufts</i> ),                   | Barre, Vt.               |
| Michael Francis McDermott, M.D., C.M. ( <i>Queens Univ.,</i> |                          |
| <i>Kingston</i> ),   | Kingston, Canada.        |
| John Norman Macdonald, L.D.S., R.C.S. ( <i>Edinburgh,</i>    |                          |
| <i>Scotland</i> ),   | Dunedin, New Zealand.    |
| Elmer Joseph Marston,  | Boston.                  |
| Louis Frederic Mongeon,                                      | Boston.                  |
| Charles Edward Murphy,                                       | Salem.                   |
| William Morse Parker,  | West Medford.            |
| James Avard Richan,  | Rockland, Me.            |
| Frederick Augustus Leopold Schuckmann,                       | Hameln, Germany.         |

|   |                |
|---|----------------|
| Frank Bowker Siears,  | Malden.        |
| Murdoch Campbell Smith, M.D., D.D.S. ( <i>Howard</i> ),             | Lynn.          |
| William Daniel Squarebrigs,   | Boston.        |
| Wilfred Harlow Starratt, A.B. ( <i>Acadia Univ., Nova Scotia</i> ), | Halifax, N. S. |
| John Talbot Timlin,   | Melrose.       |
| Albert Everett Tuck,  | Rockport.      |
| Ernest Blake Williams,  | *1899.         |
| Oliver Perry Wolfe,   | Canton.        |

## 1899.

|  |                     |
|--|---------------------|
| Percy Lewis Barker,  | *1900.              |
| Harold Nickerson Boyle,  | Reading.            |
| Burt Myron Bristol,  | Groton, Mass.       |
| Ernest Earl Carle,   | Malden.             |
| John Sibley Coxeter,   | Newtonville.        |
| James Bernard Crofwell,  | Roxbury.            |
| Joseph Walter Davis,   | New York, N. Y.     |
| Franklin Everett Dawes,  | Neponset.           |
| John Matthew Donovan,  | Dorchester.         |
| Guy Jerome Elwell,   | Gloucester.         |
| Thomas Dorsey Esgate,  | Hartford, Conn.     |
| William Edward Fallon,   | Boston.             |
| George Emil Julius Federlin,   | Leipzig, Germany.   |
| Fritz Heinrich Fincke, M.D. ( <i>Univ. of Maryland</i> ),                          | *1899.              |
| George Osbourne Gaymond,   | *1903.              |
| Everett Kendall Hallet,  | New Dorchester.     |
| Oscar John Heinrich,   | Leipzig, Germany.   |
| Elbridge Decosmos King,  | Boston.             |
| Karl Sumner Kyes,  | Peterborough, N. H. |
| Arthur Allen Libby,  | Boston.             |
| Thomas Francis McHale,   | Providence, R. I.   |
| Alfred Cooper Nathan, D.D.S. ( <i>Phila. Dent. Coll.</i> ), No. Sydney, Australia. |                     |
| Norman Beverly Nesbett,  | New Bedford.        |
| Charles Warren Patch,  | . Durango, Colo.    |
| James Henry Pemberton,   | Fall River.         |
| William Eben Phillips,   | Boston.             |
| James Edward Power,  | Providence, R. I.   |
| Herbert Arthur Reed,   | Boston.             |
| Oscar Per Herman Reuterswärd,  | Boston.             |
| George Danforth Richmond,  | Boston.             |
| Charles Bradford Robinson.   |                     |
| Willard Mariner Rowe,  | Waltham.            |

|                           |                    |
|---------------------------|--------------------|
| Carl Axel Robert Samsioe, | Stockholm, Sweden. |
| Edwin Silas Thompson,     | Vineyard Haven.    |
| Evan Parker Wentworth,    | Boston.            |
| Edward Patrick White,     | Cambridge.         |

## 1900.

|  |                                     |
|--|-------------------------------------|
| George Emerson Barrell,                                  | Boston.                             |
| George Chandler Baldwin, <i>cum laude</i> ,              | Philadelphia, Pa.                   |
| George Oliver Bartlett,                                  | Cambridge.                          |
| Daniel Crawford Brown,                                   | Baltimore, Md.                      |
| Harry Sanford Burton, L.D.S., R.C.S. ( <i>Eng.</i> ),    | Oxford, England.                    |
| Stephen Frederick Carrier,                               | Roxbury.                            |
| Horace Amos Davis, PH.B. ( <i>Tufts</i> ),               | Boston.                             |
| Frederick Wilbur Day,                                    | Augusta, Me.                        |
| John Irving Esgate, <i>cum laude</i> ,                   | No. Attleboro.                      |
| John Wesley Estabrooks, <i>cum laude</i> ,               | Boston.                             |
| Louis Dinsmore Holman Fuller,                            | Boston.                             |
| Clarence Marshall Glazier,                               | Roxbury.                            |
| Dennis Joseph Hurley,                                    | Dedham.                             |
| Charles Allen Jameson,                                   | Boston.                             |
| Edwin Newell Kent,                                       | Brookline.                          |
| Joseph Lecomte, M.D. ( <i>Brussels Univ., Belgium</i> ), | Brussels, Belgium.                  |
| Carlton Butler Leighton,                                 | Portland, Me.                       |
| Albert Ira Mackintosh,                                   | Hyde Park.                          |
| Charles Winthrop McPherson,                              | Medford.                            |
| Dwight Clifford Martin, M.D. ( <i>Harvard</i> ),         | Boston.                             |
| William Wilkinson Marvel,                                | Fall River.                         |
| Leslie Herbert Naylor,                                   | Newton.                             |
| Ralph Wheelwright Payne,                                 | Greenfield.                         |
| Frank Derby Pierce,                                      | W. Roxbury.                         |
| Samuel Lumn Doherty Randall,                             | Rio Janeiro, Brazil, South America. |
| Joseph Eugene Rochette,                                  | Worcester.                          |
| Charles William Rodgers,                                 | Dorchester.                         |
| John William Ryan,                                       | Cambridge.                          |
| Henry Heims Simmons, <i>cum laude</i> ,                  | Florence, Italy.                    |
| Frank Winthrop Snow,                                     | Providence, R. I.                   |
| David Frederick Spinney,                                 | Brookline.                          |
| Nelson Gore Trueman, M.D. ( <i>Harvard</i> ),            | Boston.                             |
| John Augustine Watts,                                    | Jamaica Plain.                      |

## 1901.

|                          |          |
|--------------------------|----------|
| Fennimore Shute Andrews, | Quincy.  |
| Roland Safford Barney,   | Medford. |
| Leslie Barnes Boutwell   |          |

|   |                   |
|---|-------------------|
| Fred Phillips Brown.                                      |                   |
| Patrick Henry Buckley,                                    | Brockton.         |
| Harry Howard Cushing,                                     | So. Framingham.   |
| James Willoughby Cutler,                                  | Watsonville, Cal. |
| Walter Alonzo Davis,                                      | Boston.           |
| John Walker Dickinson,                                    | Boston.           |
| John Patrick Donovan,                                     | Norwood.          |
| Wilson Case Dort,   | Boston.           |
| Alfred Culmer Edwards, L.D.S. ( <i>Eng.</i> ),            | Pau, France.      |
| Samuel Tuttle Elliott, <i>cum laude</i> ,                 | Boston.           |
| Ellis Vinal Fanning.                                      | Brockton.         |
| John Joseph Gallahue,                                     | So. Boston.       |
| Rufus Henry Gould,  | Worcester.        |
| Hugh Kerr Hatfield, M.D. ( <i>Harvard</i> ),              | Boston.           |
| Charles Levi Joslin,                                      | Somerville.       |
| Henry Harold Luther,                                      | Newport, R. I.    |
| Albert Leonard Midgley, <i>cum laude</i> ,                | Providence, R. I. |
| Charles Gilman Pike,                                      | Boston.           |
| Norman Greene Reoch, <i>cum laude</i> ,                   | Boston.           |
| Arthur Verne Rogers,                                      | Winchester.       |
| Melville Forrest Rogers, <i>cum laude</i> ,               | Boston.           |
| Paul Haywood Shinn,                                       | Boston.           |
| Harry Judson Smith,                                       | Brooklyn, N.Y.    |
| Coleman Tousey, A.B. ( <i>Tufts</i> ), <i>cum laude</i> , | Boston.           |
| Emery William White,                                      | *1902.            |
| Robert Whitehill,   | Boston.           |

## 1902.

|   |                  |
|---|------------------|
| Walter Adams Bradford, <i>cum laude</i> , | Boston.          |
| Adelbert Melvin Bruce,                    | Beverly.         |
| Frederick Matthew Cassidy,                | Boston.          |
| William Chesley Clinch,                   | Boston.          |
| Charles Davis Cobb,                       | Arlington.       |
| Burton Henry Cooper, <i>cum laude</i> ,   | New London, N.H. |
| Charles Henry Daly,                       | Brooklyn, N. Y.  |
| Albert William Day,                       | Worcester.       |
| Arthur Trowbridge Freeman,                | Boston.          |
| Charles Wesley Hale, <i>cum laude</i> ,   | Springfield.     |
| Thomas Frederick Hammond,                 | Stockton, Cal.   |
| Fred Burpee Hicks,                        | Brookline.       |
| Morris Arthur Lazarus,                    | Boston.          |
| Erving Fiske Lowe,                        | Fitchburg.       |
| Frank Randall McCullagh,                  | Roxbury.         |

|   |                   |
|---|-------------------|
| Edward James McGoldrick,                                    | Cambridge.        |
| Henry Edmund McNally,                                       | Rockland.         |
| Walter Curtis Miner,  | Boston.           |
| Walter Grover Newell,                                       | Boston.           |
| James Joseph O'Brien, <i>cum laude</i> ,                    | Somerville.       |
| Thomas Bartholomew Owens,                                   | Boston.           |
| Leo Augustine Rogers,                                       | Boston.           |
| Walter James Scott,   | Rutland, Vt.      |
| Luther Dimmick Shepard, Jr., A.B., M.D. ( <i>Harvard</i> ), | Boston.           |
| Harry Benjamin Shuman, <i>cum laude</i> ,                   | Boston.           |
| William John Speers,  | Newport, R. I.    |
| Rudolph Sykora,   | Boston.           |
| Charles Thomas Warner, <i>cum laude</i> ,                   | Nashua, N. H.     |
| Henry Eugene Watkins,                                       | Worcester.        |
| Bryce Aughterson Wilson,                                    | Providence, R. I. |
| George Fisher Wolfe,  | Norwood.          |
| Herbert Harlan Yarrington,                                  | Rutland, Vt.      |

## 1903.

|   |                      |
|---|----------------------|
| Paul Christen,  | Zürich, Switzerland. |
| Harold William Clarke, <i>cum laude</i> ,                       | Allston.             |
| Bernhard Cohen, A.B. ( <i>Harvard</i> ), <i>cum laude</i> ,     | New York, N. Y.      |
| Henry Eli Cohen,  | Boston.              |
| Ralph Prindall Cunningham, <i>cum laude</i> ,                   | Springfield.         |
| Stanley William Damon,  | Boston.              |
| John Boynton Davis, A.B. ( <i>Harvard</i> ), <i>cum laude</i> , | Philadelphia, Pa.    |
| Martin Bassett Dill, A.B. ( <i>Harvard</i> ),                   | Providence, R. I.    |
| Ernest Hubbell Gilbert, A.B. ( <i>Brown</i> ),                  | Needham.             |
| Henry Gilman, A.B. ( <i>Bowdoin</i> ),                          | Portland, Me.        |
| Harold Clinton Hanlon,  | No. Easton.          |
| William Dimick Hazen,   | Lebanon, N. H.       |
| Herbert Frank Langley, <i>cum laude</i> ,                       | Boston.              |
| Albert Thompson McMurray,                                       | Fredericton, N.B.    |
| Edward O'Connor,  | East Cambridge.      |
| Austin Hall Parker,   | Boston.              |
| Charles Henry Patton,   | St. John, N.B.       |
| Frederick Capen Peterson,                                       | East Boston.         |
| Mark Bailey Pressey,  | Hartford, Conn.      |
| Frank Packard Simpson,  | Pittsfield.          |
| Harry Austin Stone,   | Somerville.          |
| Frank Edgar Travis,   | So. Framingham.      |
| William Harry Weston,   | Nashua, N.H.         |
| Aubrey Albuoy Williams,   | Lynn.                |



|   |                                |
|---|--------------------------------|
| Clinton Nickerson Williams,                             | Providence, R. I.              |
| Thomas William Lee Wilson, M.A.C.D. ( <i>Australian</i> |                                |
| <i>Coll. of Dentistry</i> ),                            | Ballarat, Victoria, Australia. |
| George Henry Wright,                                    | Boston.                        |

## 1904.

|  |                       |
|--|-----------------------|
| Charles Henry Calusdian,   | Boston.               |
| Charles Douglas Carter,  | Kingston, N. Y.       |
| Raymond Boynton Carter,  | Pepperell.            |
| Ernest Herbert Caswell,  | Boston.               |
| Harry Sylvester Clark, B.S. ( <i>Dartmouth</i> ), <i>cum laude</i> , | Danvers.              |
| Frank Leroy Eames,   | W. Somerville.        |
| Nathan Anthony Estes,  | Newport, R. I.        |
| Frederick Azro Gibbs, B.S. ( <i>Dartmouth</i> ),                     | Somersworth, N. H.    |
| William Sharpe Hamilton, <i>cum laude</i> ,                          | Williamstown.         |
| James Chester Haynes,  | Roxbury.              |
| Julius Frank Hovestadt,  | Boston.               |
| Marshal Luther Howver, D.D.S. ( <i>Univ. of Michigan</i> ),          | Boston.               |
| Christopher William Hurworth, M.A.C.D. ( <i>Australian</i>           |                       |
| <i>Coll. of Dentistry</i> ),   | Brisbane, Australia.  |
| Leon Julius Lawton, <i>cum laude</i> ,                               | Providence, R. I.     |
| Frank Donovan McDonough,   | Charlestown.          |
| Leroy Matthew Simpson Miner, M.D., <i>cum laude</i> ,                | Dorchester.           |
| Melville Neal Otis,  | Providence, R. I.     |
| Clinton Mayberry Pope,   | Boston.               |
| William Burton Rogers,   | Pascoag, R. I.        |
| Ubert Clifton Russell,   | Fitchburg.            |
| Frank I Shaw, D.D.S. ( <i>Vanderbilt</i> ),                          | Seattle, Washington.  |
| Benjamin Tishler,  | Boston.               |
| Charles Lincoln Twichell,  | Springfield.          |
| Allan La Forest Watson,  | Kimberly, So. Africa. |
| Eugene Barry Wyman, <i>cum laude</i> ,                               | Brookline.            |

## 1905.

|   |                                       |
|---|---------------------------------------|
| Walter Childs Bazin, D.D.S. ( <i>Bishop's Univ.</i> , |                                       |
| <i>Prov. of Quebec</i> ),                             | Bombay, India.                        |
| Robert Scott Catheron,                                | Needham.                              |
| Earle Clinton Cummings,                               | Boston.                               |
| Harold Leonard Emmons,                                | Saco, Me.                             |
| Charles Kingsley Field,                               | London, England.                      |
| John Arthur Furbish, A.B. ( <i>Bowdoin</i> ),         | Boston.                               |
| George Stephen Smith Greenwell, M.H.A.C.              |                                       |
| ( <i>Hawksbury Agric. Coll., N. S. Wales</i> ),       |                                       |
| <i>cum laude</i> ,                                    | Killara, Sydney, N. S. W., Australia. |

|   |                                       |
|---|---------------------------------------|
| Howard Robinson Greenwell, <i>cum laude</i> ,                             | Killara, Sydney, N. S. W., Australia. |
| Albert Herder,  | Erkelenz, Germany.                    |
| George White Isles,   | *1907.                                |
| Varaztad Hovhaness Kazanjian,   | Boston.                               |
| Carl Kolb,  | Boston.                               |
| Philip Amos Leavitt,  | Providence, R. I.                     |
| Howard Mathers,   | Newport, R. I.                        |
| Charles Whiting Mock,   | Jamaica Plain.                        |
| Blaine Wilcox Morgan,   | Dorchester Lower Mills.               |
| John William O'Connell,   | Wakefield.                            |
| Joseph Francis O'Connor,  | East Cambridge.                       |
| Abner Beale Packard,  | Quincy.                               |
| Newell Oscar Parker,  | Boston.                               |
| Walter Oscar Paul, D.D.S. ( <i>Philadelphia Dental</i><br><i>Coll.</i> ), | Sydney, N. S. W., Australia.          |
| Simon Vartan Pazeian,   | Worcester.                            |
| Walter Fairfield Provan,  | Dorchester.                           |
| Charles Henry Reed,   | Attleboro.                            |
| John Henry Russell,   | Providence, R. I.                     |
| William Vernon Ryder, <i>cum laude</i> ,                                  | Northampton.                          |
| Otis Shaw Smith,  | Malden.                               |
| Charles Edward Stevens, <i>cum laude</i> ,                                | Boston.                               |
| Lester Ashton Stone,  | Fitchburg.                            |
| Frank Stuhl,  | Lyons, France.                        |
| Harry Samuel White,   | Boston.                               |
| Byron Clarke Witham,  | Portland, Me.                         |

## 1906.

|  |                              |
|--|------------------------------|
| Horatio Le Seur Andrews,                           | Cambridge.                   |
| Francis Leonard Aubrey, L.D.S. ( <i>England</i> ), | London, England.             |
| William Henry Baker,                               | Roxbury.                     |
| Howard Watson Baldwin,                             | Boston.                      |
| Fred Alexander Beckford, <i>cum laude</i> ,        | Boston.                      |
| Willem Matthias van den Broek,                     | Middelharms, Holland.        |
| Percie Chater Charlton,                            | Sydney, N. S. W., Australia. |
| Howard Clapp, <i>cum laude</i> ,                   | Boston.                      |
| Robert Glendinning Collins,                        | Bridgeport, Conn.            |
| Arthur Sylvester Crowley,                          | Cambridge.                   |
| Alban Berchmans Chrysostome Descroix,              | Boston.                      |
| Roland Edward Desoe,                               | West Springfield.            |
| Joseph Elisha Farnum,                              | Fall River.                  |
| William Henry Gilpatric,                           | Winchester.                  |

|   |                   |
|---|-------------------|
| Merton Henry Greene,                      | South Gardner.    |
| Thomas Peckham Ernest Greene,             | Newport, R. I.    |
| John Edward Hassett,                      | Rockville, Conn.  |
| Robert Hope,                              | London, England.  |
| Meritt Jenkins, PH.B. ( <i>Tufts</i> ),   | Waltham.          |
| Herman Eli Kahn,                          | Boston.           |
| Thomas Nicholas Lanigan,                  | Rockland.         |
| Edward Henry Loomer,                      | Waltham.          |
| Cornelius Henry Mack,                     | Springfield.      |
| Frank Thomas Murray,                      | Everett.          |
| John Gilchrist Niles,                     | Boston.           |
| Harold Bradshaw Norwood,                  | Boston.           |
| Maurice Earle Peters, <i>cum laude</i> ,  | Boston.           |
| William Dawbney Riggs,                    | New York, N. Y.   |
| Judson Clarence Slack, <i>cum laude</i> , | North Abington.   |
| William Fiske Strangman,                  | Salem.            |
| Arthur Garfield Webster,                  | Portland, Me.     |
| Willis Henry Weinz,                       | Roxbury.          |
| Ernest Victor Leon Whitechurch,           | Boston.           |
| Fred Sumner Woods,                        | So. Portland, Me. |

## 1907

|   |                        |
|---|------------------------|
| Lawrence George Atherton,   | Lynn.                  |
| John Albert Breen,  | Charlestown.           |
| Charles Julius Edmond Challis,  | Boston.                |
| Moses Alexander Chertok,  | Dorchester.            |
| Nathaniel Abraham Finkelstein,  | Boston.                |
| Samuel Carson Huggins,  | Springfield.           |
| Edwin Stearns Kent, PH.B. ( <i>Yale Univ.</i> ),                                | Portsmouth, N. H.      |
| Irvin Whiteley Kew,   | Hong Kong, China.      |
| Howard Arthur Lane, <i>cum laude</i> ,  | Dorchester.            |
| Alvin Benton Leavitt, B.S. ( <i>Dartmouth</i> ),                                | New York, N. Y.        |
| José Paulo Filomeno Piedade Martinho Lobo, M.D.<br>( <i>Lisbon, Portugal</i> ), | Cambridge.             |
| Charles McLellan McKenzie,  | East Boston.           |
| George Nicholson McPherson,   | East Boston.           |
| Herman Dutton Marggraff,  | Watertown, Conn.       |
| Albert Alexander Merrill,   | Halifax, Nova Scotia.  |
| Richard John Owen,  | Auckland, New Zealand. |
| Alton Flagg Perkins,  | St. Johns, N. B.       |
| Albert Pfeiffer, L.D.S. ( <i>Royal Coll. of Surgeons, England</i> ),            | Bedford.               |

|  |                |
|--|----------------|
| Francis Henry Phillips,  | Worcester.     |
| Hugo Charles Rietz, D.D.S. ( <i>Chicago Coll. of Dental Surgery</i> ), | Boston.        |
| Reinhold Ruelberg, <i>cum laude</i> ,                                  | Boston.        |
| John Campbell Thompson,  | Seattle, Wash. |
| John Edwin Tibbetts,   | Rockland, Me.  |
| Leo Augustus White,  | Charlestown.   |

## EXAMINATION PAPERS.

(*Annual Examinations, 1907.*)

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### First Year Studies.

#### ANATOMY.—Professor DWIGHT.

1. Draw a figure about twice the natural size of the occlusal surface of an upper first permanent molar. (*a*) Indicate the sides, mesial, etc. (*b*) Is the tooth a right or a left molar? (*c*) Indicate the cusps, disto-lingual, etc. (*d*) Indicate the four developmental grooves. (*e*) Mark the places below which the roots lie.

2. Draw a view of a lower first molar with two-thirds of the crown removed looking towards the roots, showing — (*a*) the outline of the tooth, (*b*) the outline of the pulp-chamber, (*c*) the position of the openings into the root-canals, (*d*) indicate the sides, mesial, etc.

3. Describe the orbit as it is in the skull.

4. Give the arrangement of the bones of the carpus and metacarpus.

5. Describe the diaphragm.

6. Describe the azygos system of veins.

7. Describe the sensory branches of the third division of the fifth pair of nerves.

8. Describe the adenoid structures of the mouth and pharynx.

#### HISTOLOGY AND EMBRYOLOGY.—Professor MINOT.

[Each student is given three sections to correspond with the first three questions below. He is expected to make simple drawings only, but sufficient to show that he has correctly identified the parts. Any student who draws tissues or structures, not shown in his preparations, will be considered to have failed in all his answers.]

*Questions 1, 2, 3, and 4 are for both Medical and Dental students.*

1. Describe and draw the different kinds of epithelium in the organ.

2. What is the organ? What is the plane of section? Draw and describe the muscle fibres in longitudinal and cross section.

3. What is the organ? Trace the course of its secretion, drawing and describing each part of that course. Describe its bloody supply.

4. What is lymphoid tissue? In what organs is it chiefly found?

5. (*For Medical students only.*) (*a*) A man of 28 years was seized with violent abdominal pain, and died in 56 hours. The autopsy revealed a blind pouch, four inches long, arising from the small intestine three feet above the valve of the colon (ileo-caecal valve). In this special case the blind end of the pouch had become adherent to the mesentery, forming a



ring, in which a loop of intestine was caught; thus the lumen of the intestine had become obstructed. How do you account, embryologically, for the occurrence of such a blind pouch?

(b) A nodule, about one half an inch in diameter, was removed surgically from the back of the tongue. Sections of the nodule contained many round follicles lined by simple cuboidal epithelium and containing colloid material staining intensely with eosine. What organ do these follicles suggest? How do you account, embryologically, for their occurrence in the tongue?

6. (*For Medical students only.*) What is neuroglia? Describe briefly its development and structure.

7. (*For Dental students only.*) By a series of drawings show the process of development of the enamel and dentine.

8. (*For Dental students only.*) From what germ layer come

- (a) adamantoblasts;
- (b) odontoblasts;
- (c) stellate reticulum.

What is the relation between the odontoblasts and the dentine

- (1) during the development of the dentine;
- (2) in the adult tooth?

#### PHYSIOLOGY. — Professor W. B. CANNON.

[Answer any five questions. Mention, where possible, experimental evidence in support of your statements.]

1. Discuss the factors concerned in neuro-muscular fatigue.
2. Discuss the senses of taste and smell and their relations to each other.
3. Give in detail the events of a cardiac cycle.
4. Describe briefly the structure and function of the vasomotor system, giving experimental evidence.
5. Discuss the effects of the digestive secretions on one another.
6. Discuss the internal secretion of the supra-renal glands.

#### DENTAL AND PHYSIOLOGICAL CHEMISTRY.

Mr. H. CARLTON SMITH.

1. How do the artificial enamels differ in composition from the ordinary oxy-phosphate cement?
2. Describe test for expansion and contraction of dental amalgams. What is the test for discoloration?
3. Describe method of recovery of silver scrap.
4. Explain the relationship of organic alcohols, aldehydes, and acids. How may the iodiform test for alcohol be made?
5. Explain terms and give examples of: "Isomers," a "para" compound, an "ester."

6. What is an enzyme? Name three found in the pancreatic juice and state specific action of each.

7. State reagents used in each of the following tests on saliva: (a) acetone, (b) ammonia, (c) sulphocyanates, (d) chlorine.

8. Compare the Hyper-acid and Hyper-acid states as regards the following particulars of salivary analysis: The chlorides. The ammonia. The reaction. The sulphocyanates. Presence or absence of sodium oxalate.

9. Describe the method of determining quantity of uric acid in urine. What is the normal amount in 24 hours of uric acid and what does an increase signify?

10. In the following analysis of urine point out four particulars which are practically impossible and state reason for selections which you make:—

|                                |                      |
|--------------------------------|----------------------|
| 24 hour quantity, — 1100 c.c.  | Color — pale.        |
| Reaction — strongly acid.      | Urea — 2.44 %.       |
| Sp. Gr. — 1024.                | Phosphates — Normal. |
| Chlorides — 3.71 %.            | Uric acid — .41 %.   |
| Albumen and sugar both absent. |                      |

Sediment contains numerous bacteria — Squamous epithelium — Occasional triple phosphate crystal — Uric acid crystals and considerable blood.

## Second Year Studies.

### BACTERIOLOGY. — Professor ERNST.

1. What is the difference between the higher and the lower bacteria?
2. Contrast Infection and Intoxication.
3. What is meant by “races” of bacteria? Use the tubercle bacillus as an illustration.
4. Give the methods for diagnosing the tetanus bacillus.

### DENTAL PATHOLOGY. — Professor BRACKETT.

1. Age as a predisposing factor in etiology.
2. Circumstances determining the location of carious cavities in teeth.
3. The amenability to conservative treatment of exposed dental pulps with superficial hyperemia.
4. The recognition of prevalent acidity in the oral fluids.
5. Atrophies in the oral cavity.
6. The nosology of diseases of the antrum.
7. The true nature of dental affections which may be erroneously called neuralgia.
8. The diagnosis of adenoids.
9. The diagnosis of diseased and dead pulps in teeth not having open cavities.
10. The principles of serum therapy.

## Second Year Studies.

### OPERATIVE DENTISTRY. — Dr. DILL.

1. Describe or draw a cross-section at the gum line of each of the following :—
  - superior first molar,
  - superior first bicuspid,
  - superior second bicuspid,
  - inferior first molar,
  - inferior second bicuspid.
2. Name and briefly describe the different classes of instruments used in the preparation of cavities. Name the uses of each class.
3. Why is it necessary to sterilize dental instruments? Describe processes.
4. Discuss gutta-percha in its application to operative dentistry.
5. Bicuspid; sensitive to heat, pain relieved by the application of cold, throbbing pain at night, large metal filling. Diagnosis and treatment?
6. Superior incisor; badly decayed, fistulous opening on the gum. Treatment?
7. How destroy the pulp in a molar with cavities extending below gum line?
8. Describe the preparation for gold of a proximal cavity in a bicuspid or molar.
9. Describe a method of bleaching discolored teeth.
10. The value of this question will be taken from the marks on the quizzes.

### CROWN AND BRIDGE WORK. — Asst. Professor COOKE.

1. Give some points to be observed in the shaping of roots for crowns and bridges.
2. Give two ways of crowning a root so it can be used to support a partial denture.
3. Give some causes of the breaking of porcelain teeth in soldering.
4. Name the different kinds of solders and the metals used in making each.
5. Describe several ways of making a crown for a tooth with a live pulp.
6. Describe crowns made from the different porcelain formulas and state their advantages.
7. Give points to be observed in shaping root-canals for posts, in shaping teeth for all metal crowns, in shaping roots for crowns.
8. Describe several ways of making a banded crown with porcelain grinding surface for molars or bicuspids.
9. Describe the making of two bridges.
10. Give points to be observed in the making of crowns and bridges. State your difficulties in making specimen crowns.

## MATERIA MEDICA AND THERAPEUTICS. — Professor BRIGGS.

1. Glonoin, aspirin, nuclein. Describe fully.
2. Write a prescription containing an antipyretic heart stimulant and a stomachic.
3. Anaesthesia with hyoscine hydrobromide and morphine hydrochlorate. Describe the two drugs.
4. Systemic treatment of pyorrhea alveolaris.
5. What quantity of a 40 per cent. solution of formaldehyde is required to make 4 grams of an 8 per cent. solution?
6. Calcium sulphide, calendula. Describe.
7. Technique in the administration of ether for anaesthesia.
8. Describe the surgical removal of the dental pulp from a tooth having no cavity, and give subsequent treatment.
9. Give the important principles to be desired in the make-up of a tooth powder; of a mouth lotion.
10. Sodii bicarbonas.

## PROSTHETIC DENTISTRY AND ORTHODONTIA.

Drs. CROSS and BAKER.

1. Describe the contact of cusps, and the position of the condyles, during mastication on the right side.
2. (a) Describe briefly an accurate method of determining the angle of the condyle path.  
(b) State the reason for its importance.
3. On what does the action of the Suerson appliance for cleft palates depend?
4. What precautions should be taken to protect the first, during a second soldering?
5. (a) State the probable displacement in a case of fracture of the mandible at the angle.  
(b) What instrument may be used, to avoid a common error, in the construction of an interdental splint?
6. Describe briefly a method of correcting a faulty occlusion, discovered at the trial.
7. State the relations of post-nasal obstructions to deformities of the jaw and irregularities of the teeth.
8. (a) What is the characteristic facial deformity accompanying a case of distal occlusion with protruding incisors?  
(b) What is the characteristic facial deformity accompanying a case of distal occlusion with retruding incisors?
9. In correcting a badly contracted arch what changes take place in the alveolar process?
10. Describe the dental characteristics of the following case:—  
A man, forty-five years of age, hair dark, eyes dark brown, cheeks inclined to be high, firm mouth, strong angular chin and jaw, complexion dark, muscular build.



### Third Year Studies.

#### ORTHODONTIA. — Professor SMITH.

1. Discuss the influence of nasal stenosis on mal-occlusion.
2. Discuss the influence of heredity on mal-occlusion.
3. What are the various applications of elastic rubbers in the treatment of mal-occlusions?
4. (a) What is torsion of the teeth?  
(b) How corrected?
5. Discuss a retaining fixture for a case of constricted superior and inferior arches with protrusion of the superior incisors and distal occlusion that has been successfully treated.
6. Discuss the extracting of bicuspid in relation to special cases of orthodontia.
7. Discuss the problem of anchorage.
8. The loss and retention of deciduous teeth and its bearing on mal-occlusion.
9. Cite a case the condition of which would make imperative the use of the head cap and bit.
10. Discuss devices for the spreading of the superior arch.

#### OPERATIVE DENTISTRY. — Professor POTTER.

1. Discuss the cleavage of enamel margins in the preparation of a cavity to be filled with gold. Draw diagram showing lines of cleavage.
2. Describe the characteristics of the respiration in the three stages of nitrous oxide gas anaesthesia and in the three stages of ether anaesthesia (either being given by the semi-open method).
3. Give the ingredients of somnoforme.  
(a) In what proportion is each used?  
(b) What is the boiling point of each ingredient and the boiling point of somnoforme?
4. Discuss the relation between the boiling point of an anaesthetic and its relative safety, and illustrate by an example.
5. Draw a horizontal section of the superior maxilla showing the location of the roots of the teeth. Discuss the extraction of these teeth along the lines of least resistance.
6. Draw and describe the apparatus used in the bleaching of teeth by electrical osmosis. How can infected roots be treated by electricity?
7. Describe three ways of tightening the six lower front teeth when they have become loose from socket disease.
8. Discuss the use of powdered pumice, precipitated chalk, tincture of iodine, and peroxide hydrogen in the prophylaxis of the mouth.
9. Ranula. Definition, etiology, diagnosis, prognosis, treatment.
10. Mention briefly some ways of treating neuralgia surgically.



## CROWN AND BRIDGE WORK. — Asst. Professor COOKE.

1. (a) Give methods of preparing teeth and roots for crowns and bridges. (b) Give points to be considered in deciding when the use of a crown is advisable.
2. Discuss the relative advantages in the use of cement, amalgam, gutta percha, gold, and platinum in crown work.
3. Describe two cases in which the use of crowns and bridges will prevent the projecting of the front teeth.
4. What methods would you use in making bridges in order to secure the greatest amount of masticating surface?
5. Give at least three methods of crowning a split root.
6. Describe at least three methods of crowning peg teeth.
7. Describe cases of crowns and bridges in which porcelain is king.
8. Discuss the importance of preserving the inter-dental space in crown and bridge work.
9. Discuss the use of crowns and bridges where pyorrhea alveolaris is present.
10. Give points to be considered in deciding when to use post and banded crowns and bridges.

## PROSTHETIC DENTISTRY. — Professor SMITH.

1. Why is it necessary to use a flux when soldering gold?
2. Discuss the use of clasps.
3. Cheoplastic denture.
  - (a) How made?
  - (b) Conditions indicating its use.
4. Under what conditions would you consider the use of modeling compound preferable to plaster for the taking of an impression?
5. What are some of the difficulties in the taking of an occlusion and how overcome?
6. Discuss vacuum chamber.
7. Discuss the restoration of facial expression with artificial dentures.
8. What is the "Purple of Cassius" and for what is it used?
9. Give the properties of Keolin.
10. When would you use a fused inlay and when a round one, after the Stowell method.

## SURGERY AND ORAL SURGERY. — Drs. MONKS and BLAKE.

1. What are the terminations of acute inflammation of the soft parts?
2. Describe caries and necrosis.
3. Mention some of the causes of ulceration.
4. Enumerate the various causes of gangrene.

5. Give an outline of the treatment (preventive, curative, and palliative) for tuberculosis.
6. What is the difference between a sinus and a fistula?
7. Give a brief description of the various kinds of cysts connected with the jaws.
8. Mention and briefly describe the various diseased conditions to which the lips may be subject.
9. Describe essentials in preparation of patient, and in production of surgical anesthesia.
10. Describe in detail three methods of controlling hemorrhage.





**THE HARVARD MEDICAL SCHOOL**

DENTAL STUDENTS ATTEND LECTURES AND LABORATORY EXERCISES IN THESE BUILDINGS













